

# **Los Alamos National Laboratory Federal Facility Compliance Order Annual Site Treatment Plan Update for Fiscal Year 2025, Revision 36.0**



Newport News Nuclear BWXT-Los Alamos, LLC (N3B), under the U.S. Department of Energy Office of Environmental Management Contract No. 89303318CEM000007 (the Los Alamos Legacy Cleanup Contract), has prepared this document. The public may copy and use this document without charge, provided that this notice and any statement of authorship are reproduced on all copies.

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## **ACRONYMS**

|        |                                                        |
|--------|--------------------------------------------------------|
| 40 CFR | Title 40 of the Code of Federal Regulations            |
| AMWTP  | Advanced Mixed Waste Treatment Plant                   |
| CCA    | Compliance Certification Application                   |
| CMR    | Chemistry and Metallurgy Research (Building)           |
| CP     | Compliance Plan                                        |
| CVD    | Confinement Vessel Disposition (Project)               |
| DOE    | U.S. Department of Energy                              |
| DOE EM | U.S. Department of Energy Environmental Management     |
| EM     | Environmental Management                               |
| EM-LA  | Environmental Management Los Alamos Field Office (DOE) |
| EPA    | U.S. Environmental Protection Agency                   |
| ER     | Environmental Restoration                              |
| FFCA   | Federal Facility Compliance Act                        |
| FFCO   | Federal Facility Compliance Order                      |
| FTWC   | flanged tritium waste container                        |
| FY     | fiscal year                                            |
| HWA    | Hazardous Waste Act                                    |
| HWB    | Hazardous Waste Bureau                                 |
| HWN    | hazardous waste number                                 |
| IPA    | industrial isopropyl alcohol                           |
| INL    | Idaho National Laboratory                              |
| LANL   | Los Alamos National Laboratory                         |
| LANS   | Los Alamos National Security, LLC                      |
| LDR    | Land Disposal Restrictions (RCRA)                      |
| LLW    | low-level waste                                        |
| LWAA   | Land Withdrawal Act Amendments                         |
| MLLW   | mixed low-level waste                                  |
| MTRU   | mixed transuranic (waste)                              |
| MWIR   | Mixed Waste Inventory Report                           |
| N3B    | Newport News Nuclear BWXT-Los Alamos, LLC              |

|       |                                                                        |
|-------|------------------------------------------------------------------------|
| NA-LA | National Nuclear Security Administration Los Alamos Field Office (DOE) |
| NMAC  | New Mexico Administrative Code                                         |
| NMED  | New Mexico Environment Department                                      |
| NNSA  | National Nuclear Security Administration (DOE)                         |
| PCB   | polychlorinated biphenyl                                               |
| RCRA  | Resource Conservation and Recovery Act                                 |
| SME   | Subject Matter Expert                                                  |
| STP   | Site Treatment Plan                                                    |
| TA    | Technical Area                                                         |
| TBD   | to be determined                                                       |
| TBV   | to be verified                                                         |
| Triad | Triad National Security, LLC                                           |
| TRU   | transuranic (waste)                                                    |
| TSCA  | Toxic Substances Control Act                                           |
| TWF   | Transuranic Waste Facility                                             |
| UC    | University of California                                               |
| WCATS | Waste Compliance and Tracking System                                   |
| WCS   | Waste Control Specialists, LLC                                         |
| WETF  | Weapons Engineering Tritium Facility                                   |
| WIPP  | Waste Isolation Pilot Plant                                            |

## **INTRODUCTION**

On October 6, 1992, Congress passed the Federal Facility Compliance Act (FFCA) to address compliance by the U.S. Department of Energy (DOE) with the Land Disposal Restrictions (LDR) for the storage of mixed waste set forth in Section 3004(j) of the Resource Conservation and Recovery Act (RCRA). The FFCA requires DOE to submit a Site Treatment Plan (STP) for developing treatment capacities and technologies to treat all the facility's mixed waste, regardless of the time generated, to the standards promulgated pursuant to Section 3004(m) of the RCRA. The FFCA provides that the appropriate regulatory authority, the New Mexico Environment Department (NMED), may approve, approve with modifications, or disapprove the submittal of the STP. Prior to making such a determination, the FFCA requires NMED to provide public notice, consider public comments, and consult with the U.S. Environmental Protection Agency (EPA) and any other state in which a facility affected by the STP is located.

On October 4, 1995, NMED issued a Federal Facility Compliance Order (FFCO) to DOE and the management and operating contractor, the University of California (UC) Regents. On June 1, 2006, Los Alamos National Security, LLC (LANS) replaced UC as operating contractor of Los Alamos National Laboratory (LANL). LANS then assumed responsibility for FFCO compliance. On April 30, 2018, Newport News Nuclear BWXT-Los Alamos, LLC (N3B) became the prime contractor for the DOE Environmental Management Los Alamos Field Office (EM-LA) and is responsible for LANL site-wide cleanup as well as waste management and shipping of legacy STP and remediation wastes at Technical Area 54 (TA-54), Areas G and L. Per the LANS/N3B Service Agreement/Work Authorizations signed April 30, 2018, N3B became the lead contractor for FFCO compliance. As of November 1, 2018, Triad National Security, LLC (Triad) became the new prime contractor for DOE National Nuclear Security Administration Los Alamos Field Office (NA-LA), replacing LANS. Triad is responsible for the mixed-waste management reporting in those areas managed by Triad.

At present, N3B is responsible for all quarterly and annual FFCO STP reporting requirements, working closely with Triad to fulfill FFCO requirements for all LANL STP requirements. N3B and Triad, as well as EM-LA and NA-LA, will collectively be referred to as "the Respondents."

The FFCO requires the Respondents to implement an STP for the treatment of mixed waste at LANL. The STP is intended to fulfill the FFCA requirements and establish an enforceable framework to allow the Respondents to achieve full compliance with LDR requirements under the New Mexico Hazardous Waste Act (HWA) and RCRA. The compliance dates set forth in the STP are enforceable time periods in which Respondents are required to treat or otherwise meet the requirements set forth for LDR under the HWA and RCRA.

On March 31, 1995, DOE submitted its proposed STP, which addressed treatment capacities and technologies to treat all LANL's mixed waste, regardless of the time it was generated, to NMED. On April 17, 1995, the public was provided with an opportunity to comment to NMED on DOE's draft STP. After considering public comment and otherwise complying with the FFCA, NMED approved the draft STP with modifications on October 4, 1995.

Section VII of the FFCO requires the Respondents to submit an Annual STP Update to NMED each year on or before March 31. The FFCO requires that the Annual Update bring the information in both the Background and the Compliance Plan (CP) current to the end of the previous federal fiscal year (FY). Part I of this Annual Update constitutes the update to the Background. Part II contains the changes that have occurred since the last Annual Update and identifies proposed revisions and amendments to the CP. Part III incorporates the changes in Part II into the proposed CP revision (Revision 36.0).

## **PART I BACKGROUND UPDATE**

### **1.0 INTRODUCTION**

The Background (Part I) provides the following information:

- The estimated volume of covered waste in storage at the end of the previous FY and anticipated to be placed in storage for the next five FYs.
- A progress report from the end of the previous federal FY describing treatment progress and treatment technology development for each treatment facility and activity scheduled in the STP.
- A description, if applicable, of current or anticipated alternative treatment technology that is being evaluated for use instead of treatment technologies or capacities identified in the STP.
- A description of DOE's funding for STP-related activities and any funding issues that may affect the schedule.
- The status of the "No-Migration Variance Petition" or any treatability variances.
- A progress report on characterization and/or treatment capabilities or plans for mixed transuranic (MTRU) waste related to the waste treatment standards, if any, for the DOE Waste Isolation Pilot Plant (WIPP) facility near Carlsbad, New Mexico.

The STP-covered waste inventory is verified during quality control activities. Inconsistencies in treatability group or volume between the original inventory and the current inventory may exist. These inconsistencies are reconciled within the Annual Update. To correct these inconsistencies and streamline the STP reporting process, the Respondents will work on incorporating the STP report data function utilizing the Waste Compliance and Tracking System (WCATS).

### **2.0 AMOUNT OF EACH COVERED WASTE STORED AT LANL**

#### **2.1 Mixed Low-Level Waste Inventory**

During FY 2025 the STP-covered mixed low-level waste (MLLW) inventory decreased from 155.226 m<sup>3</sup> to 10.928 m<sup>3</sup>. This decrease was due to the shipment of 135.511 m<sup>3</sup> and administrative adjustments (Tables C-1 and C-2) of 15.038 m<sup>3</sup>. There were contributions from new covered MLLW of 6.251 m<sup>3</sup>. Table 2.1-1 summarizes changes to the estimated FY STP-covered MLLW inventory.

The transuranic (TRU)/MTRU waste recharacterization process will continue to produce 10–100 nCi/g waste (LA-W935). Delays in the TRU/MTRU waste recharacterization process are due to a backlog of waste as a result of previous shipping pauses, limited shipments to WIPP, and past restrictions on-site at TA-54, Areas G and L.

Appendix A provides the detailed changes to the previous year's STP-covered MLLW inventory by treatability group, which includes the inventory for N3B in Appendix A, Table A-1, and the inventory for Triad in Table A-2. Appendix B, Table B-1, lists the current year's MLLW shipments. Administrative adjustments to the MLLW inventory are categorized in Appendix C, Table C-1, for the N3B-managed inventory and Table C-2 for the Triad-managed inventory. The MLLW inventory reported in the previous Annual Update is included as Appendix D, Table D-1, for N3B-managed inventory and Table D-2 for the Triad-managed inventory.

Table 2.1-1 STP-Covered MLLW Inventory Summary

| Contribution                                            | Volume (m <sup>3</sup> ) |
|---------------------------------------------------------|--------------------------|
| N3B MLLW Inventory Reported in FY 2024                  | 154.488                  |
| Triad MLLW Inventory Reported in FY 2024                | 0.738                    |
| Proposed Revision 36.0                                  |                          |
| N3B New Covered Waste                                   | 5.097                    |
| Triad New Covered Waste                                 | 1.154                    |
| N3B Administrative Adjustments                          | -14.300                  |
| Triad Administrative Adjustments                        | -0.738                   |
| N3B Off-site Shipment                                   | -134.357                 |
| Triad Off-site Shipment                                 | -1.154                   |
| Off-site Treatment/Recycle                              | 0                        |
| On-site Decontamination                                 | 0                        |
| Treatability Study Use                                  | 0                        |
| <b>MLLW Inventory Reported in FY 2025 Annual Update</b> | <b>10.928</b>            |

Note: Calculations have been rounded to three places after the decimal point.

## 2.2 Mixed Transuranic Inventory Summary

During FY 2025, STP-covered MTRU inventories increased from 1120.176 m<sup>3</sup> to 2109.010 m<sup>3</sup>. The increase was due to new covered MTRU waste of 1006.930 m<sup>3</sup> and administrative adjustments of 10.984 m<sup>3</sup>. MTRU waste shipments to WIPP were 29.080 m<sup>3</sup>.

Table 2.2-1 summarizes changes to the estimated FY 2025 MTRU STP-covered waste inventory. Appendix E contains additional detail for the MTRU inventory; Table E-1 covers the N3B inventory; Table E-2 covers the inventory for Triad; and Table E-3 covers the remaining original population of the Framework Agreement volume of STP-covered MTRU waste that is part of the “non-cemented above-ground Environmental Management (EM) Legacy TRU” (MTRU waste only). The Framework Agreement volume (discussed in Part 3, Section 4.0 of the CP) is now detailed in Table E-3; therefore, it is no longer summarized in Table E-1. Table E-3 is a subset of the data that was originally presented in Table E-1 as the volumes in Table E-3 do not contribute to the volumes in Table E-1. Separating the “Framework Agreement” volumes into individual tables allows a detailed representation in Table E-1 of the remaining MTRU volume on-site. Appendix F, Table F-1, provides a summary of MTRU shipments to WIPP. In Appendix G, Tables G-1, G-2, and G-3 describe the administrative adjustments that were made to resolve differences in the N3B inventory data, Triad inventory data, and Framework Agreement MTRU inventory data, respectively. More explanation of Table E-3 and Table G-3 is given in Part III, “Mixed Transuranic Waste,” Section 4.0, Disposal.

Administrative adjustments typically represent the following types of activities:

- Respondents may correct database entries so that waste items not previously listed as STP waste are now identified and included as STP waste.
- Respondents may correct waste data, such as volume or EPA codes, through quality control activities. Under DOE Standards, waste that was formerly classified as MTRU because it had radioactivity greater than 100 nCi/g has been reclassified to MLLW (LA-W935) if its activity is between 10 nCi/g and 100 nCi/g.
- New analytical data may also require that waste streams previously managed as TRU waste should be reclassified and managed as MTRU waste.
- During repacking or other quality control activities, TRU waste may be recharacterized as MTRU waste when previously unidentified hazardous contents, such as lead, are determined to be present.
- During repacking, treatability groups are frequently reassigned to be consistent with current management and shipping criteria. to include intra-site transfer of containers between Triad and N3B.
- Containers of waste are occasionally determined not to belong to mixed waste streams and are reclassified as TRU waste. Removal of WIPP-prohibited items, if they are the only hazardous constituent, will result in the remaining waste being classified as non-mixed.
- Addition or removal of overpacks does not change the inner container volume of the waste in the inventory.
- Rounding container volumes to three decimal places may change the inventory volume.

Table 2.2-1 STP-Covered MTRU Inventory Summary

| Contribution                                                                                                                    | Volume (m <sup>3</sup> ) |
|---------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| N3B MTRU Inventory Reported in FY 2024                                                                                          | 978.596                  |
| Triad MTRU Inventory Reported in FY 2024                                                                                        | 141.580                  |
| Proposed Revision 36.0                                                                                                          |                          |
| N3B New Covered MTRU Waste                                                                                                      | 961.536                  |
| Triad New Covered MTRU Waste                                                                                                    | 45.394                   |
| MTRU Waste Removed from Inventory (Shipped to WIPP)                                                                             | -29.080                  |
| MTRU inventory volume reported in FY 2024 at WCS <sup>a</sup> (FY 2014 on hold) is referenced in Appendix F, Tables F-2 and F-4 | NA <sup>b</sup>          |
| MTRU waste volume shipped from WCS to WIPP in FY 2025 (FY 2014 on hold) is referenced in Appendix F, Tables F-2 and F-4         | NA                       |
| MTRU inventory reported in FY 2025 at WCS (FY 2014 on hold) is referenced in Appendix F, Tables F-2 and F-4.                    | NA                       |
| N3B Administrative Adjustments                                                                                                  | 24.548                   |
| Triad Administrative Adjustments                                                                                                | -13.564                  |
| <b>MTRU Inventory Reported in FY 2025 Annual Update</b>                                                                         | <b>2109.010</b>          |

Note: Calculations have been rounded to three places after the decimal point.

<sup>a</sup> WCS = Waste Control Specialists, LLC

<sup>b</sup> NA = Not analyzed.

Appendix G includes administrative adjustment changes to the MTRU waste inventory that resulted from repackaging and reclassification of waste activities. MTRU waste is documented in the inventory as the volume of the container, for example, when waste is repacked, the STP inventory volume of any given treatability group may either increase or decrease as the waste contents are sometimes split into two or more new containers to meet shipping and waste acceptance criteria or to meet characterization criteria (e.g., nondestructive analysis calibration limits). In addition, the waste may be assigned to different treatability groups depending on the contents of each drum. Therefore, the volume of the original container may increase to two containers, which may change the waste volume in the STP inventory, for example, repacking one container of *Cemented Sludge* (0.208 m<sup>3</sup>) may result in one container of *Combustible-Noncombustible Waste* (0.208 m<sup>3</sup>) and one container of *Noncombustible Waste* (0.208 m<sup>3</sup>).

### **3.0 TREATMENT PROGRESS**

#### **3.1 Off-site Treatment**

During FY 2025, covered MLLW streams were shipped for treatment and/or disposal to the following off-site commercial treatment facilities: Perma-Fix Northwest Inc. and Waste Control Specialists, LLC . See Appendix H, Table H-1 for commercial facilities contacted for waste treatment capabilities. Appendix B summarizes LANL's off-site shipments for treatment and/or disposal of covered MLLW.

#### **3.2 Off-site Recycling**

Respondents did not recycle any STP-covered waste off-site.

#### **3.3 On-site Treatment and Recycling**

Respondents did not treat or recycle any STP-covered waste on-site.

#### **3.4 On-site Lead Decontamination**

No LANL STP-covered waste was decontaminated on-site.

#### **3.5 Treatability Studies**

Respondents conducted no treatability studies.

#### **3.6 Administrative Adjustments and Corrections**

Administrative adjustments and corrections are due to discrepancies found during quality control activities related to preparing waste for treatment, inventory, and disposal or when preparing the Annual Update. A data quality review is conducted annually to compare shipment notifications and shipping manifests with database updates, and intra-site transfer of containers between Triad and N3B.

##### **3.6.1 Adjustments to MLLW Inventory**

Appendix C (Tables C-1 and C-2) details the administrative adjustments to the MLLW inventory. The principal adjustment reflects the transfer of MTRU waste to MLLW (LA-W935, 10–100 nCi/g). A substantial volume of LANL's STP-covered MTRU waste has been determined to no longer meet the criteria for MTRU waste and has been reclassified as MLLW. If previously unidentified hazardous waste constituents, such as lead, are revealed during repacking or other quality control activities, low-level waste (LLW) may be recharacterized as MLLW (Appendix C).

### **3.6.2 Adjustments to MTRU Inventory**

During the preparation of the FY 2025 Annual Update, Respondents identified a few adjustments to the MTRU inventory volume (Appendix G, Tables G-1, G-2, and G-3), including additions of newly identified STP-covered waste, recharacterization of waste, and reclassification of MTRU waste to MLLW. Other adjustments were needed to account for volume changes due to repacking of waste and transfers of waste from one treatability group to another, or intra-site transfer of containers between Triad and N3B, or to correct database entries (Appendix G).

## **4.0 TREATMENT TECHNOLOGY DEVELOPMENT**

During FY 2025, the availability of commercial and federal facility off-site treatment and disposal capacity for MLLW remained stable. As a result of DOE's increasing reliance on commercial treatment and disposal for mixed wastes, nearly all funding for on-site technology development has been prioritized to support off-site treatment and disposal of mixed wastes. DOE treatment technology development initiatives are generally limited to specific technologies or technology adaptations in response to specific needs that cannot be addressed through commercial facilities.

### **4.1 Treatment Technologies Being Evaluated/Developed**

Respondents continue to monitor the development of potential treatment technologies that may become available in the future. Some of these technologies are being developed at LANL and at other DOE sites. Respondents developed a treatment method to address the type of TRU waste associated with the February 14, 2014, release of radioactivity at WIPP. The treatment process was approved and was utilized to address remediated nitrate salt and above ground un-remediated nitrate salt waste in 2017 and 2018, as required by the January 22, 2016, "Settlement Agreement and Stipulated Final Order, 14-20 Consent Order between DOE/LANS and NMED's Hazardous Waste Bureau (HWB)."

#### **4.1.1 Off-site Commercial Treatment Facilities**

Respondents continue to monitor the availability and capabilities of off-site commercial facilities for treatment technologies and permitting that are appropriate to LANL waste. These facilities are listed in Appendix H (Table H-1).

#### **4.1.2 Off-site DOE Treatment Facilities**

Respondents continue to monitor the availability and capabilities of off-site DOE facilities for treatment technologies and permitting that are appropriate to LANL waste.

## **5.0 DOE FUNDING FOR STP RELATED ACTIVITIES**

Funding to implement the LANL STP for mixed waste during FY 2025 was sufficient to meet all compliance dates as required by the CP of the STP. Should funding reductions occur that would affect STP compliance dates, DOE will notify NMED to address compliance schedules and activities.

## **6.0 TREATMENT VARIANCES**

RCRA allows certain case-by-case variances from LDR standards. Variances that may be sought under RCRA relate to requests for substitution of an alternative treatment technology in place of the LDR-required treatment technology. This section discusses any potential treatment variances related to LANL's covered waste, as described below.

## **6.1 WIPP No-Migration Variance Petition/Land Withdrawal Act Amendments**

WIPP, located near Carlsbad, New Mexico, is a DOE repository for TRU waste generated by the nation's defense-related activities. Some of the TRU waste contains hazardous waste constituents regulated under the RCRA.

The WIPP repository is a deep geological repository rather than a shallow landfill. It is wholly situated 2,100 ft below the land surface in a salt bed. Because salt has the advantageous characteristic of slow plastic deformation, it is predicted that the salt will entomb the waste and seal it from the human environment, making potential release of hazardous constituents a low-probability event.

The WIPP Land Withdrawal Act Amendments of 1996 (LWAA) (Public Law 104-201, Section 3188) exempted waste designated by the Secretary of Energy for disposal at WIPP from RCRA's LDRs. Following passage of the LWAA, the EPA terminated its review of the No-Migration Variance Petition submitted by DOE to EPA in May 1995. EPA formalized its withdrawal by letter to George Dials, DOE/Carlsbad Area Office Manager, dated December 29, 1997.

On October 29, 1996, DOE submitted its Compliance Certification Application (CCA) to EPA. The CCA is intended to demonstrate to EPA that WIPP meets the requirements of Title 40 of the Code of Federal Regulations (40 CFR) Part 191 and 40 CFR Part 194. On October 23, 1997, EPA announced its proposed decision to issue a Certification of Compliance, subject to several specified conditions, and to a public comment period of 120 days. On May 18, 1998, EPA published in the Federal Register (63 FR 27354) its final rule certifying that WIPP will comply with the requirements of Subparts B and C of 40 CFR Part 191 and amending the WIPP compliance criteria in 40 CFR Part 194. The final rule became effective June 17, 1998. On March 25, 1999, WIPP received its first shipment of non-mixed (radioactive only) TRU waste from LANL. Other facilities have also shipped non-mixed TRU waste to WIPP. NMED issued a hazardous waste permit for WIPP on October 27, 1999, authorizing DOE to manage, store, and dispose of contact-handled MTRU waste at the facility.

## **6.2 Other Treatment Variance(s)**

No treatment variances were requested or granted in FY 2025.

## **7.0 WIPP FACILITY CAPABILITIES**

As discussed above, DOE is disposing its defense TRU waste, both mixed and nonhazardous, in its deep geologic repository at the WIPP near Carlsbad, New Mexico. This facility is a receiving and disposal facility without the capability of routinely opening and repackaging waste. TRU waste will already be containerized when received at the WIPP. The WIPP is not a generator of TRU waste and, therefore, will receive all waste in shipments from off-site DOE facilities. In February 2014, NMED received notice of a release at the WIPP nuclear waste repository. A LANL container sent to WIPP experienced an energetic chemical reaction that ultimately led to the release of radioactive material. In light of these events, and the potential need to re-remediate all nitrate salt-bearing waste, NMED determined that the removal of MTRU from the STP be deferred until more information became available; NMED also determined that the remaining above grade waste stored at the Waste Control Specialists, LLC (WCS) facility and WIPP would not be returned to LANL until approval to relocate below grade waste was obtained. All shipments of MTRU covered waste inventory to WIPP were suspended between May 2014 and July 2018, due to the WIPP shutdown. WIPP resumed operations in July 2018.

## **7.1 Characterization Capabilities at WIPP**

Wastes proposed for shipment to WIPP are characterized and certified at LANL by the Central Characterization Project, a contractor to DOE's Carlsbad Field Office.

## **7.2 MTRU Treatment Capabilities and Plans**

WIPP is not required to treat MTRU waste to meet the LDR standards. As described above in Section 6.1, the LWAA exempted waste designated by the Secretary of Energy for disposal at the WIPP from this requirement.

## **PART II COMPLIANCE PLAN UPDATE**

### **1.0 INTRODUCTION**

This update to the CP contains:

- Changes to the CP occurring since the previous Annual Update:
  - correspondence, including notices of shipments; and
  - new covered and deleted waste.
- Proposed revisions and amendments, including:
  - description of waste deleted in accordance with the requirements in FFCO Section IX, *Deletion of Waste*; and
  - documentation of new covered waste in accordance with the requirements in FFCO Section VIII, *Addition of New Covered Waste*.

### **2.0 CHANGES AND REVISIONS TO THE CP OCCURRING SINCE THE PREVIOUS ANNUAL UPDATE**

This section describes revisions, amendments, or other changes to the LANL CP.

#### **2.1 Activities Completed During FY 2025**

There was one CP activity milestone completed. Compressed gases requiring scrubbing, Activity Table 3.1.8 was completed on August 21, 2025.

#### **2.2 Expedited Shipment Letters**

During FY 2025, there were no expedited shipment letters. (Appendix I, Table I-1)

#### **2.3 Correspondence**

Between October 1, 2024, and September 30, 2025, Respondents communicated with NMED on issues related to the following:

- FY 2025 waste shipment notifications and quarterly reports

The correspondence is listed in Appendix I (Tables I-1, I-2, and I-3). Previously listed correspondence can be found in the previous FY Annual Updates.

### **3.0 DESCRIPTION OF DELETED WASTE**

A proposal for deletion of STP waste items is included with this update as Proposed Revision 36.0 in accordance with FFCO Section IX, *Deletion of Waste*. These deletions are proposed because the waste was shipped off-site for treatment, disposal, or recycling or were otherwise determined not to be mixed waste. These covered wastes are included in Appendix B, Appendix C, Appendix F, and Appendix G.

### **4.0 DOCUMENTATION OF NEW COVERED WASTE**

A proposal for the addition of STP waste items is included with this update in accordance with FFCO Section VIII, *Addition of Waste*. These additions consist of wastes placed in storage during FY 2024 and were proposed to become covered waste in FY 2025. These covered wastes are included in Appendices A

and E. Addition of new covered and newly characterized as MTRU waste to be added to the STP is identified in Section 6.1.

## 5.0 PROPOSED CHANGES TO THE COMPLIANCE PLAN SCHEDULE

Funding to implement the LANL STP for mixed waste during FY 2025 was sufficient to meet all compliance dates as required by the CP of the STP. Should funding reductions occur that would affect STP compliance dates, Respondents will notify NMED to address compliance schedules and activities.

In this FY 2025 Annual STP Update, Revision 36.0, submitted to NMED, DOE/N3B/Triad are proposing the following milestones;

- (1) **Activity Table 3.2-2 (A) and (B)** to “complete shipping of wastes to an off-site treatment facility or submit documentation assigning waste items to applicable treatability groups or complete parallel option” and to “provide documentation to NMED that waste was received at an off-site facility or provide notification of parallel option” of the LA-W928, Dewatered Treatment Sludge.

Revision 34.0 compliance date: September 30, 2026

- (2) **Activity Table 3.2-2 (A) and (B)** to “complete shipping of wastes to an off-site treatment facility or submit documentation assigning waste items to applicable treatability groups or complete parallel option” and to “provide documentation to NMED that waste was received at an off-site facility or provide notification of parallel options of the LA-W934, High Activity Waste, specifically the Flanged Tritium Waste Containers (FTWCs).

- (3) Revision 34.0 compliance date: September 30, 2026

**Activity Table 3.3.4-2 (A) and (B)** to “complete radiological characterization” of the LA-W935, 10–100 nCi/g Waste” and to “complete shipment of existing waste to off-site facility for treatment or complete parallel options” of the LA-W935, 10–100 nCi/g Waste.

Revision 34.0 compliance date: September 30, 2026

- (4) **Activity Table 4.0-1 (A)** to “complete transfer of existing waste to Dome 375, a (TA-54) permitted facility, or WIPP,” which constitutes the remaining original population of the Framework Agreement of “non-cemented above ground EM Legacy TRU” and “aboveground cemented EM Legacy TRU” that is MTRU waste only.

Revision 34.0 compliance date: November 30, 2026

### Disposal/Recovery/Treatment Process

- (1) **Activity Table 3.2-2 (A) and (B):** The LA-W928, Dewater Treatment Sludge, consists of six containers located at TA 54, Area G. Further action is needed to reevaluate these containers into the correct treatability group to align with the appropriate treatment process. NMED will be notified in writing within 45 working days of the receipt of waste at the off-site facility or within 45 working days after the completion of parallel options per the compliance dates set in Activity Table 3.2-2 (A).
- (2) **Activity Table 3.2-2 (A) and (B):** The LA-W934, High Activity Waste treatability group, consists of five containers. Four of the containers are the FTWCs composed of molecular sieves loaded with tritium water vapor, and squib assemblies containing lead with tritium. The fifth container, which is not a FTWC, is composed of tritium traps with mercury. The FTWCs requires venting at Area G prior to transport to the Weapons

Engineering Tritium Facility (WETF), where they will undergo segregation and repackaging activities before shipment to an off-site disposal facility. These activities were proposed to be conducted at Area G and at WETF under the revised “F20Y22 Annual Update March 2023 Site Treatment Plan, Rev. 33.0 Federal Facility Compliance Order 11 Temporary Authorization (LA-UR-20-22103)” submitted to NMED on March 9, 2020.

Each of these activities involve planning, approval, and scheduling which require a rigorous course of tasks for safety implementation in the management of these containers. These processes involve modeling for offsite dose potential, assuming a worst-case scenario for both wind and gas composition. The project will manage one container at a time, and all activities will be performed by experienced professionals using an air-monitoring system to detect tritium releases.

The project had been recently delayed since NMED had requested the Laboratory to evaluate the additional criteria for the project in response to public comment and concern. The air sampling will be conducted on site while the FTWCs are being remediated. The LANL air-monitoring program, a critical component of Laboratory operations, will be operational to monitor any releases and to ensure that the public and the environment are protected from pollutants.

The operation aims to mitigate gas buildup within the FTWCs, by using controlled venting methods to depressurize the gas headspace caused by the accumulation of oxygen and hydrogen. The Triad staff will depressurize the FTWC headspace while capturing as much vapor phase tritium as possible that might be released during these operations. Real-time monitoring will be in place during the operation, and the process can be paused and placed in a safe configuration at any time as needed. Laboratory engineers have previously conducted a thorough analysis of the venting process to ensure that any releases are controlled. This methodology will be observed and evaluated by EPA representatives and air samples will be collected by the NMED DOE Oversight Bureau and will be processed by a third-party analytical laboratory. All data collected from this operation will be publicly available through the electronic public reading room or the Intelius database.

- (3) **Activity Table 3.3.4-2 (A) and (B):** The 10–100 nCi/g treatability group, LA-W935, consists of a population of legacy drums packaged and managed as MTRU (>100 nCi/g) but, after assay, determined to be MLLW. Once confirmed, these drums are segregated from other TRU waste and will be stored in a designated MLLW storage area. The drums will be prepared using LANL waste generator acceptable knowledge documentation, real-time radiography, and/or nondestructive assay data for treatment and disposal to a commercial off-site facility.
- (4) **Activity Table 4.0-1(A):** is a continuous transfer of existing waste to Dome 375, a TA-54 permitted facility, for ultimate shipments to WIPP. This waste constitutes the remaining original population of the Framework Agreement “non-cemented above ground EM Legacy TRU” and “above-ground cemented EM Legacy TRU” that is MTRU waste only. N3B is continuously managing this waste stream with such activities as recharacterization, repackaging, and shipping.

#### Justification for Milestone Extension

- (1) **Activity Table 3.2-2 (A) and (B):** The LA-W928, Dewater Treatment Sludge, consists of six containers located at TA 54, Area G. Further action is needed to reevaluate these containers into the correct treatability group to align with the appropriate treatment

process. NMED will be notified in writing within 45 working days of the receipt of waste at the off-site facility or within 45 working days after the completion of parallel options per the compliance dates set in Activity Table 3.2-2 (A).

Current compliance date: September 29, 2026

Proposed Revision 36.0 compliance date: September 29, 2028

- (2) Activity Table 3.2-2 (A) and Activity Table 3.2-2 (B): LA-W934 High Activity Waste.** An evaluation of the activities has been performed by key LANL personnel and in the SME's conclusion of the planned activities to depressurize and monitor the four FTWCs and transport them from Area G to WETF will be accomplished safely and without harm to the LANL workers, people living in nearby communities, or the environment. The depressurization will be performed in favorable weather conditions, e.g., at greater than 40°F, to ensure the instrumentation operates properly and during calm winds. The fixtures used with the FTWCs have been designed, fabricated, and tested in accordance with accepted practices for handling tritium. The activities involving the FTWCs will use proven components that have been used in the WETF tritium facility for many years to safely purge the gloveboxes of tritium. Other fixtures will be attached to the FTWC after the FTWC is opened to reduce the pressure on atmospheric conditions. The depressurization and pressure testing and monitoring steps will occur sequentially, one FTWC at a time, which further reduces the risk of a release or an unexpected occurrence. The movement of the FTWCs from the storage shed in Area G to the transfer frame and to the shipping trailer is well planned and rehearsed to anticipate any possible off-normal occurrence. The pressure will be monitored and recorded for each movement activity in the process. Finally, when the FTWCs are transported to the WETF, they will be moved one at a time to further reduce the likelihood of unforeseen problems. The operational plan for depressurizing, monitoring, and transporting the FTWCs from Area G to WETF is technically accurate and complies with methods and processes appropriate for the safe handling of tritium and other gases within the FTWCs.

Due to the presence of elemental mercury in the fifth container, sorting and segregation is not appropriate and an additional method of treatment must be evaluated by N3B. This container is also under the same compliance date of September 29, 2026, and will require further discussion and planning toward options for a path forward, which has not been acted on to date. This fifth container is composed of tritium traps with mercury and is not a FTWCs. The fifth container is stored at TA-54, Area G. The Respondents will provide more information to NMED in the subsequent STP annual report addressing the fifth container and request that this container, for the time being, remain within the same compliance date and treatability group as the FTWCs.

The activities for the remediation of the FTWCs were delayed while DOE/Triad addressed NMED's request for additional information, and the requirement for additional tribal and public outreach pre- and post-treatment. Since DOE/Triad received approval to implement treatment on the FTWCs September 4, 2025, the DOE/Triad was not able to start operations in June 2025 as originally planned; as such, the Respondents are proposing an extension from September 29, 2026 to September 29, 2028 to accommodate the final shipment of the four FTWCs containers and the fifth container within the same treatability group compliance date.

Activity Table 3.2-2 (B) states that NMED will be notified in writing within 45 working days of the receipt of waste at the off-site facility or within 45 working days after the completion of parallel options per compliance dates set in Activity Table 3.2-2 (A).

Current compliance date: September 29, 2026

Proposed Revision 36.0 compliance date: September 29, 2028

- (3) **Activity Table 3.3.4-2 (A) and (B):** The treatability group 10-100 nCi/g Waste, LA-W935, focuses on the continuous efforts to recharacterize MTRU waste containers to MLLW. Some MTRU waste containers carrying old accumulation start dates, therefore when re-characterized to MLLW late in the fiscal year (for example – during September 2026), become difficult to ship by the established compliance date of September 30, 2026. The recharacterized MLLW carries the accumulation start date from the parent MTRU container. Consequently, with this continuous recharacterization of MTRU waste containers to MLLW, the volume of the waste stream LA-W935 will be difficult to remove from the STP inventory by the STP compliance date of September 30, 2026. If LANL maintains a MTRU inventory with accumulation start dates from previous years, the LA-W935 MLLW will inherit the accumulation start date set forth by the parent. Therefore, the Respondents are proposing an extension from September 30, 2026 to September 30, 2028, since this is a MTRU ongoing waste stream controlled by the accumulation start date set by the original MTRU parent.

Current compliance date: September 30, 2026

Proposed Revision 34.0 compliance date: September 30, 2028

- (4) **Activity Table 4.0-1(A)** is a continuous transfer of existing waste to Dome 375, a TA-54-permitted facility, for ultimate shipments to WIPP. This waste constitutes the remaining original population of the Framework Agreement “non-cemented above ground EM Legacy TRU” and “above-ground cemented EM Legacy TRU” that is MTRU waste only. N3B is continuously managing this waste stream of legacy containers with such activities as recharacterization, repackaging, and shipping. Therefore, the Respondents are proposing an extension from November 30, 2026, to November 30, 2028, as this is a legacy MTRU ongoing waste stream.

Current compliance date: November 30, 2026

Proposed Revision 34.0 compliance date: November 30, 2028

No other changes to the schedule in the CP of the STP are proposed.

## 6.0 DETAILED DESCRIPTION OF THE PROPOSED REVISION

The purpose of this revision request is to reflect changes in the STP inventories in the LANL CP of the STP in accordance with FFCO Section X.C.2.a. The changes proposed by this revision to the CP will allow the added covered waste to be treated or otherwise managed in accordance with the Activities and Compliance Dates pertaining to each treatability group, as adopted or revised herein. The CP text changes are indicated in the redlined version provided to NMED.

There were no milestone changes in the FY 2024 Annual STP Update, Revision 35.0, that was submitted to NMED in March 2025. NMED approved the FY 2024 Annual STP Update, Revision 35.0 on December 11, 2025, “*Approval, Site Treatment Plan, Fiscal Year 2024 Annual Update and Proposed Revision 35.0, Federal Facility Compliance Order, October 4, 1995, Los Alamos National Laboratory, EPA ID#NM0890010515, HWB-LANL-25-02*”.

### 6.1 Addition of New Covered Waste

Respondents are requesting that the following waste be added to the STP as covered waste.

### 6.1.1 MLLW Additions

The total volume of MLLW requested for addition as new covered is 6.251 m<sup>3</sup> (Table 6.1.1-1).

Table 6.1.1-1 Proposed Addition of New Covered MLLW

| CP Section                           | MWIR* Waste ID | Treatability Group     | Volume (m <sup>3</sup> ) |
|--------------------------------------|----------------|------------------------|--------------------------|
| 3.1.2                                | LA-W904        | Soil With Heavy Metals | 5.097                    |
| <b>Total N3B New Covered Waste</b>   |                |                        | <b>5.097</b>             |
| 3.3.4                                | LA-W935        | 10–100 nCi/g Waste     | 1.154                    |
| <b>Total Triad New Covered Waste</b> |                |                        | <b>1.154</b>             |
| <b>Total New Covered Waste</b>       |                |                        | <b>6.251</b>             |

\* MWIR is Mixed Waste Inventory Report.

### 6.1.2 MTRU Waste Additions

The volume of new covered MTRU waste requested for addition is 1006.930 m<sup>3</sup> (Table 6.1.2-1).

Table 6.1.2-2 identifies waste that is proposed for addition following activities that identified waste in the TRU inventory as MTRU, either through review of waste characteristics or as a result of identifying potentially hazardous constituents during repacking of TRU waste.

Table 6.1.2-1 Proposed Addition of New Covered MTRU Waste

| CP Section                           | Treatability Group               | Volume (m <sup>3</sup> ) |
|--------------------------------------|----------------------------------|--------------------------|
| 4.0                                  | Cemented Sludge Waste            | 959.658                  |
| 4.0                                  | Combustible-Noncombustible Waste | 1.878                    |
| <b>Total N3B New Covered Waste</b>   |                                  | <b>961.536</b>           |
| 4.0                                  | Combustible-Noncombustible Waste | 43.314                   |
| 4.0                                  | Noncombustible Waste             | 2.080                    |
| <b>Total Triad New Covered Waste</b> |                                  | <b>45.394</b>            |
| <b>Total New Covered Waste</b>       |                                  | <b>1006.930</b>          |

Table 6.1.2-2 Proposed Addition of Waste Newly Characterized as MTRU

| CP Section                            | Treatability Group                                                                                                                                                                                                                                                           | Volume (m <sup>3</sup> ) |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| 4.0                                   | <i>Combustible-Noncombustible Waste</i> (identification of potentially hazardous constituents based on investigation of characterization of TRU nitrate salt waste, debris containers with aerosol cans, and empty containers not meeting the RCRA empty criteria.)          | 0.000                    |
| 4.0                                   | <i>Solidified Inorganic and Organic Waste</i> (identification of potentially hazardous constituents based on investigation and characterization of TRU nitrate salt waste, cemented containers with free liquids, and empty containers not meeting the RCRA empty criteria.) | 0.000                    |
| <b>Total Newly Characterized MTRU</b> |                                                                                                                                                                                                                                                                              | <b>0.000</b>             |

## **6.2 Deletion of Covered Waste**

MLLW is shipped off-site for treatment and/or disposal, recycling, or are otherwise proposed as deleted waste. MTRU is shipped to WIPP for disposal.

### **6.2.1 Deletion of MLLW**

Respondents are requesting that the covered MLLW identified in Appendix B be deleted from the STP. These covered wastes were shipped off-site for treatment and disposal or recycling. The total volume of covered MLLW that is requested for deletion under this revision to the CP is 135.511 m<sup>3</sup> (Appendix B, Table B-1).

### **6.2.2 Other Deletions of MLLW**

No waste was proposed for deletion due to recycling or on-site treatment. No waste was shipped off-site for treatability studies.

### **6.2.3 Deletion of MTRU Waste**

Respondents are requesting that the covered MTRU waste identified in Appendix F be deleted from the STP. These covered wastes were shipped off-site to WIPP for disposal. The total volume of covered MTRU that is requested for deletion from inventory under this revision to the CP is 29.080 m<sup>3</sup> (Appendix F, Table F-1).

## **6.3 Adjustments to the Original (October 4, 1995) STP-Covered MLLW Inventory**

Respondents are requesting adjustments to the original (October 4, 1995) STP-covered MLLW inventory as listed in Appendix C (Tables C-1 and C-2). Most administrative adjustments are due to reclassification of MTRU waste to MLLW treatability groups and to quality control activities related to preparing waste for treatment and disposal. These adjustments may result in additions of newly identified covered waste or transfers of waste to other treatability groups.

## **6.4 Adjustments to MTRU Waste Inventory**

Respondents are requesting adjustments (Appendix G, Tables G-1, G-2, and G-3) to the original (October 4, 1995) STP-covered MTRU waste inventory. Most administrative adjustments are due to reclassification of MTRU waste to MLLW treatability groups or to other MTRU treatability groups and reclassification of TRU to MTRU because of quality control activities related to preparing waste for treatment and disposal. These adjustments may result in additions of newly identified covered waste or transfers of waste to other treatability groups or intra-site transfer of containers between Triad and N3B.

## **6.5 Establishment of New Milestone Activity Dates**

Respondents are requesting new compliance milestone dates.

## **6.6 Additional Revisions**

No other revisions are requested.

## 7.0 RATIONALE FOR THE PROPOSED REVISION

This information is provided in accordance with FFCO Section X.C.2.a.

### 7.1 Establishment of New Proposed Milestone

There were no proposed extension dates that were approved by NMED in FY 2024. The proposed compliance dates that were approved by NMED's, "Approval Site Treatment Plan, Fiscal Year 2023 Annual Update & Proposed Rev. 34.0, Federal Facility Compliance Order, October 4, 1995, Los Alamos National Laboratory, EPA ID#NM0890010515, HWB-LANL-24-008," Dated June 17, 2024, are as follows:

- **Activity Table 3.1.8-1 (A) and (B)** to "complete shipping of existing wastes to an off-site treatment facility or complete parallel options" and to "provide documentation to NMED that waste was received at the off-site facility or provide notification of parallel option" of the LA-W917, Compressed Gases Requiring Scrubbing, by September 30, 2026. Activity completed on August 21, 2025.
- **Activity Table 3.2-2 (A) and (B)** to "complete shipping of wastes to an off-site treatment facility or submit documentation assigning waste items to applicable treatability groups or complete parallel option" and to "provide documentation to NMED that waste was received at an off-site facility or provide notification of parallel option" of the LA-W928, Dewatered Treatment Sludge, by September 30, 2026.
- **Activity Table 3.2-2 (A) and (B)** to "complete shipping of wastes to an off-site treatment facility or submit documentation assigning waste items to applicable treatability groups or complete parallel option" and to "provide documentation to NMED that waste was received at an off-site facility or provide notification of parallel option" of the LA-W934, High Activity Waste, specifically the Flanged Tritium Waste Containers (FTWCs), by September 30, 2026.
- **Activity Table 3.3.4-2 (A) and (B)** to "complete radiological characterization" of the LA-W935, 10–100 nCi/g Waste" and to "complete shipment of existing waste to off-site facility for treatment or complete parallel options" of the LA-W935, 10–100 nCi/g Waste, by September 30, 2026.
- **Activity Table 4.0-1 (A)** to complete transfer of existing waste to Dome 375, a TA-54 permitted facility, or WIPP", which constitutes the remaining original population of the Framework Agreement of "non-cemented above ground EM Legacy TRU" and "above-ground cemented EM Legacy TRU" that is MTRU waste only by November 30, 2026.

### 7.2 Addition of New Covered Waste

Waste that was newly generated in FY 2024, which was not treated within 12 months of generation, became new covered waste during FY 2025. In addition, TRU wastes, re-evaluated during repacking and quality control activities found to have previously unidentified RCRA constituents, were also added to the STP inventory (Appendix G). Approval of these proposed additions to the STP inventory will allow the added covered wastes to be treated or otherwise managed in accordance with the activities and compliance dates pertaining to each treatability group..

### 7.3 Deletion of Covered Waste

Decreases in covered waste inventory reflect the treatment and disposal or recycling of covered waste at off-site commercial facilities during FY 2025. Deletion of this covered waste is proposed to more accurately reflect the LANL STP inventory as of the end of FY 2025.

#### **7.4 Adjustments to the Original (October 4, 1995) STP-Covered Waste Inventory**

Administrative adjustments result from quality control activities related to preparing waste for treatment and disposal. These adjustments result in additions of newly identified covered waste and transfers of waste to other treatability groups. These adjustments to the original (October 4, 1995) STP-covered waste inventory are proposed to more accurately reflect the LANL STP inventory as of the end of FY 2025.

#### **8.0 ANTICIPATED LENGTH OF ANY DELAY IN PERFORMANCE**

In accordance with FFCO Section X.C.2.c, Respondents cannot confidently predict the anticipated delay in performance for shipping covered STP MTRU waste for which the only currently allowed deletion pathway is disposal at WIPP.

#### **9.0 PLAN AND SCHEDULE FOR IMPLEMENTING ALL REASONABLE MEASURES**

All other measures proposed could be implemented within the framework of the existing plan and schedule for the STP (FFCO Section X.C.2.d).

## **PART III COMPLIANCE PLAN – PROPOSED REVISION 35.0**

### **1.0 PURPOSE AND SCOPE OF THE COMPLIANCE PLAN**

#### **1.1 Introduction**

Part III of this document identifies changes that require NMED approval as a revision under Section X, *Revisions*, or an amendment under Section XI, *Other Amendments to the STP*.

The CP includes a schedule for off-site transportation for treatment, or completion of parallel options as defined in each Treatability Group Section, and the treatment of mixed wastes in full compliance with the HWA and the implementing regulations at 20 New Mexico Administrative Code (NMAC) 4.1, that incorporates by reference 40 CFR Parts 260 through 270. Part I, Background, contains progress reports as required in the FFCO. Respondents shall carry out the activities described in the STP, including the CP, in accordance with the schedules and requirements set forth in the STP and the FFCO.

#### **1.2 STP Revisions and Amendments**

The STP CP has been modified several times since it was originally issued, in accordance with the provisions of Section X, *Revisions*, and Section XI, *Other Amendments to the STP*, of the October 4, 1995, FFCO, as amended and revised. The history of revisions is provided in Appendix J.

### **2.0 COMPLIANCE SCHEDULES**

The STP provides overall schedules for achieving compliance with LDR storage and treatment requirements for mixed waste at LANL. The schedules include those activities required to process backlogged and currently generated waste and include schedules required to establish an overall timeframe for achieving compliance with the LDR requirements under the HWA and 20 NMAC 4.1.

#### **2.1 Categories of Activities for Compliance Dates**

The categories of activities for which compliance dates will be provided for different types of treatment approaches in the STP are listed in the tables below. The categories of activities are based on Section 3021(b)(1)(B)(i), (ii), and (iii) of the RCRA, to the extent appropriate.

##### **2.1.1 Plans Where Treatment Technology Exists**

For most of the mixed waste, treatment technologies were identified and developed. For the waste that will be treated on-site, the categories of activities for compliance dates identified in Table 2.1.1-1 shall apply.

*Table 2.1.1-1 Categories of Activities for Compliance for Mixed Waste with Existing Treatment Technologies*

|    |                                                                           |
|----|---------------------------------------------------------------------------|
| A. | Submit permit applications to NMED.                                       |
| B. | Initiate construction as specified in the NMED permit.                    |
| C. | Complete system testing and commence operation.                           |
| D. | Begin treating mixed waste.                                               |
| E. | Complete treatment of existing wastes to applicable regulatory standards. |

##### **2.1.2 Plans Where Technology Must Be Developed**

For some mixed waste, no treatment technologies were identified and developed, or the treatment technology must be modified or adapted to apply to such waste. For the waste that will be treated on-site, the categories of activities for compliance dates are identified in Table 2.1.2-1 and shall apply.

**Table 2.1.2-1 Categories of Activities for Compliance Dates for Mixed Waste Without Existing Treatment Technologies**

|    |                                                                                                                                        |
|----|----------------------------------------------------------------------------------------------------------------------------------------|
| A. | Identify and develop technology.                                                                                                       |
| B. | Submit permit application to NMED; or                                                                                                  |
| C. | Submit a Notification of Intent to perform treatability study to NMED a minimum of 45 working days prior to commencement of the study. |
| D. | Initiate construction as specified in the NMED permit.                                                                                 |
| E. | Commence systems testing.                                                                                                              |
| F. | Begin treating mixed waste.                                                                                                            |
| G. | Complete treatment of existing wastes to applicable regulatory standards.                                                              |

## 2.2 Primary Preferred Treatment

Off-site treatment at a commercial or noncommercial mixed waste treatment facility is the primary preferred treatment option applicable to all mixed waste streams in the STP inventory unless otherwise indicated in the descriptions of individual waste treatability groups. DOE may also pursue parallel treatment options, such as recycling/re-use or radiological decontamination. Requirements for waste shipped off-site for recycling are discussed under Part III, Section 2.6. All activities and compliance dates related to the construction, permitting, and operation of on-site treatment skids were removed from this document. This change was due to the increased availability of off-site treatment and disposal capacity for mixed waste. Respondents will continue evaluating new commercial and DOE off-site treatment facilities as potential options for managing mixed waste, as they become available.

## 2.3 Plans for Mixed Waste to be Shipped Off-site for Treatment

Should Respondents decide to treat or recycle waste at a commercial off-site facility (Table 2.3-1), Respondents will notify the NMED STP Manager in writing as soon as possible and in any event within 45 working days of receipt of waste at the treatment/recycling facility.

**Table 2.3-1 Activities for Off-site Shipment for Treatment or Recycling at a Commercial Facility**

|    |                                                                                                                                                                                     |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A. | Meet all regulatory requirements for shipment.                                                                                                                                      |
| B. | Provide documentation to NMED that waste has been received at an off-site facility for treatment or recycling within 45 working days of receipt of waste at the treatment facility. |

DOE shall notify the NMED STP Manager in writing as soon as possible if mixed waste is planned to be sent to a noncommercial facility. Notification should be made, if possible, when DOE is first considering such an option to allow NMED and the state to address any state issues or concerns with other states. The NMED STP Manager shall approve in writing the proposed off-site noncommercial treatment option proposed by DOE prior to any shipment by DOE. DOE will notify the NMED STP Manager in writing as soon as possible and in any event within 45 working days of receipt of waste at the treatment/recycling facility. Activities for mixed waste to be shipped off-site for treatment/recycling at a noncommercial facility are identified in Table 2.3-2.

**Table 2.3-2 Activities for Shipment Off-site for Treatment or Recycling at a Noncommercial Facility**

|    |                                                                                                                                                                                                               |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A. | Request necessary approval from NMED for shipment of waste by category before shipping.                                                                                                                       |
| B. | Meet all regulatory requirements for off-site shipment.                                                                                                                                                       |
| C. | Provide documentation to NMED of confirmation of shipment date within 14 working days prior to sending waste to an off-site facility for treatment, or recycling, or storage pending treatment, or recycling. |
| D. | Provide documentation to NMED that waste has been received at an off-site facility for treatment within 45 working days of receipt of waste at the off-site facility.                                         |
| E. | Meet all regulatory requirements to include RCRA Permit modifications for residual or newly generated waste streams after treatment or recycling.                                                             |
| F. | Provide documentation to NMED within 30 working days after receipt of residual or newly generated waste streams upon return to LANL.                                                                          |

### **2.3.1 Specific Site Requirements for Noncommercial Treatment Facilities**

#### **Shipment to Idaho National Laboratory**

Prior to shipment, Idaho National Laboratory (INL) and Idaho Division of Environmental Quality shall be notified of any pending shipments of waste should DOE ship MLLW to INL. Proper procedures including additional approvals (if necessary) and documentation shall be completed prior to the shipment of waste to INL. Management of post-treatment waste residuals or newly generated waste streams will be in accordance with the requirements of DOE, the State of Idaho, and that state where they will be disposed. A modification to LANL's RCRA permit providing for the return of such wastes and/or residues to LANL must be approved by NMED prior to any such return of wastes and/or residuals to LANL. DOE will notify the NMED STP Manager in writing as soon as possible and in any event within 30 working days after receipt of shipment of treatment residuals or newly generated waste streams from INL.

Shipments of MLLW to planned facilities (not yet existing) will occur only after treatment and schedules are approved by the DOE Idaho Field Office and the State of Idaho. Upon approval of the planned treatment facilities, the applicable protocol for mixed waste from the paragraph above will be implemented.

#### **Shipment to Oak Ridge Reservation**

If Oak Ridge Reservation cannot dispose of mixed-waste residues or new waste streams generated from off-site treatment, and they cannot be sent to another facility for disposal, then the residues may return to LANL. Should residual or newly generated waste streams be returned to LANL, the proper permits for the State of New Mexico must exist. DOE will notify the NMED STP Manager in writing as soon as possible and in any event within 30 working days after receipt of shipment of treatment residuals or newly generated waste streams from the Oak Ridge Reservation.

### **2.4 Requirements Pertaining to Radionuclide Separation**

The FFCA sets additional requirements in cases where DOE intends to conduct radionuclide separation of mixed waste. Should DOE determine to do radionuclide separation of such mixed waste, DOE will schedule specific compliance dates based on category activities identified in Table 2.4-1. "Radionuclide separation" shall mean segregating the radioactive portion of the mixed waste from the hazardous portion of the mixed waste.

*Table 2.4-1 Activities for Radionuclide Separation*

|    |                                                                                                                                                           |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| A. | Complete an estimate of the volume of waste generated by each case of radionuclide separation.                                                            |
| B. | Complete an estimate of the volume of waste that would exist or be generated without radionuclide separation.                                             |
| C. | Complete an estimate of the costs of waste treatment and disposal if radionuclide separation is used compared with the estimated costs if it is not used. |
| D. | Provide the assumptions underlying such estimates of waste volumes and cost estimates.                                                                    |
| E. | Provide characterization methodologies for determining waste type.                                                                                        |
| F. | Submit a plan for treating or managing hazardous waste residues, accompanied by an NMED permit application.                                               |

## 2.5 Plans Related to Other Mixed Waste Activities

Activities other than the types of activities specifically called for in the FFCA as requiring schedules are described in this STP. Some of these activities may be associated with schedules that may contain compliance dates related to treatment of DOE's mixed waste.

For mixed waste, which is not sufficiently characterized to allow identification of appropriate treatment, notification of the characterization of such waste shall be in accordance with the annual update process described in the FFCO. If such characterization results in the addition or deletion of a treatability group or an increase in volume in a treatability group, a revision would be required pursuant to Section X of the FFCO.

Respondents will notify NMED when off-site treatability studies are conducted on STP waste. Treatability studies are used to explore alternative treatment options that may be practical for any or all the STP mixed waste streams. When preparing waste for shipment for an off-site treatability study, Respondents will evaluate the potential for incidental waste treatment or secondary waste generation, which are often associated with treatability studies.

## 2.6 Recycling/Re-Use

Respondents will pursue on-site or off-site recycling/re-use as a parallel preferred option.

Should DOE elect to use recycling facilities in lieu of (or in combination with) treatment, it will follow requirements as if the waste were shipped off-site for treatment. All requirements by the recycling facility and all state, federal, or other regulatory requirements applicable at the recycling site shall be met by Respondents.

Respondents shall notify the NMED STP Manager in writing as soon as possible if mixed waste is planned to be sent to an off-site non-commercial recycling facility. Notification should be made, if possible, when DOE is first considering such an option to allow NMED and the state to address any state issues or concerns with other states. The NMED STP Manager shall approve in writing the proposed off-site noncommercial recycling option prior to any shipment by Respondents. Respondents will notify the NMED STP Manager in writing as soon as possible and in any event within 45 working days of receipt of waste at the recycling facility. Activities for mixed waste to be recycled are identified in Table 2.6-1.

*Table 2.6-1 Requirements for Recycling*

|    |                                                                                                                                  |
|----|----------------------------------------------------------------------------------------------------------------------------------|
| A. | Meet all regulatory requirements for recycling/re-use.                                                                           |
| B. | Provide documentation to NMED that waste has been received within 45 working days of receipt of waste at the recycling facility. |

Should DOE elect to use recycling/re-use facilities in lieu of (or in combination with) treatment, it will follow the requirements as if the waste were shipped off-site for treatment. Respondents will submit a notification letter to NMED within 45 working days, in place of documentation, that waste was received at a recycling facility.

## 2.7 On-Site Radiological Decontamination

Respondents will pursue on-site radiological surface or external decontamination as a preferred option. No volumetric or internal decontamination processes will be considered or performed. Surface radiological decontamination includes activities such as sand blasting, hand-scrubbing, or electrolytic decontamination. These decontamination activities could result in reducing or removing the radiological contaminant from the waste such that the waste could be recycled in accordance with CP Section 2.6 *Recycling/Re-Use* or be proposed for deletion in accordance with Section IX *Deletion of Waste* of the FFCO.

Activities for mixed waste to be radiologically decontaminated are identified in Table 2.7-1.

Table 2.7-1 Activities for Radiological Decontamination

|    |                                                                                                                                      |
|----|--------------------------------------------------------------------------------------------------------------------------------------|
| A. | Meet all DOE requirements for radiological decontamination.                                                                          |
| B. | Provide documentation to NMED that waste has been received within 45 working days of receipt of waste at the recycling facility;; or |
| C. | Propose waste for deletion in accordance with Section IX of the FFCO.                                                                |

## 3.0 MIXED LOW-LEVEL WASTE STREAMS

This section presents the preferred options to treat MLLW at LANL. Options not described below must be approved by NMED in accordance with the revision process pursuant to the FFCO.

The original October 4, 1995, STP inventory in each MLLW treatability group was modified through the revision process in the FFCO. The tables in the STP Background (Part I) Appendices A–M of the FY 2009 Annual Update provide a comprehensive summary of changes to the CP covered waste inventories (additions, deletions, and shifts of waste between treatability groups) occurring as of the date of that revision. In Part III, the original STP inventory in each MLLW treatability group is denoted as subgroup 0 of that treatability group (e.g., the original volume of STP treatability group LA-W906 became LA-W906-0). Each revision that has since added volumes to individual treatability groups has resulted in creation of an additional subgroup, having the same number as the revision (e.g., LA-W906-4 was created in Revision 4.0, and LA-W906-5 was created in Revision 5.0).

In most subsections of this section, the subgroups of the treatability groups are not shown. In those cases, the Activities and Compliance Dates are applicable to the entire net volume of that treatability group. However, when subgroups of a treatability group were assigned Activities and Compliance Dates unique to that subgroup, those subgroups are detailed in the text. Activities and Compliance Dates that were met in previous years are not shown in this document.

### 3.1 Mixed Waste Streams

The following subsections summarize MLLW treatability groups.

#### 3.1.1 Industrial Isopropyl Alcohol (IPA) Wastes and Scintillation Fluids

Table 3.1.1-1 Treatability Groups for IPA Wastes and Scintillation Fluids

| Treatability Group   | MWIR* Waste ID | RCRA Codes                   | Volume (m <sup>3</sup> ) |
|----------------------|----------------|------------------------------|--------------------------|
| IPA Wastes           | LA-W901        | D001, D009, F002, F003, F005 | 0.000                    |
| Scintillation Fluids | LA-W902        | D001, F003, F005             | 0.000                    |
| <b>Totals</b>        |                |                              | <b>0.000</b>             |

\*MWIR is Mixed Waste Inventory Report.

**Treatment:** The waste will be treated at an off-site facility that combusts organic liquid waste.

#### 3.1.2 Lead Blankets, Soil with Heavy Metals, Environmental Restoration (ER) Soils

Table 3.1.2-1 Treatability Groups for Lead Blankets, Soil with Heavy Metals, ER Soils

| Treatability Group     | MWIR* Waste ID                                                                | RCRA Codes                                     | Volume (m <sup>3</sup> ) |
|------------------------|-------------------------------------------------------------------------------|------------------------------------------------|--------------------------|
| Lead Blankets          | LA-W903                                                                       | D007, D008                                     | 0.000                    |
| Soil With Heavy Metals | LA-W904<br>LA-W904-31<br>LA-W904-32<br>LA-W904-33<br>LA-W904-34<br>LA-W904-36 | D004, D005, D006, D007, D008, D009, D010, D011 | 5.097                    |
| ER Soils               | LA-W905                                                                       | D028, D029, F001, F005 D010, D011              | 0.000                    |
| <b>Totals</b>          |                                                                               |                                                | <b>5.097</b>             |

\*MWIR is Mixed Waste Inventory Report.

**Treatment:** The waste will be treated at an off-site facility that stabilizes or macroencapsulates waste.

#### 3.1.3 Aqueous Organic Liquids

Table 3.1.3-1 Treatability Groups for Aqueous Organic Liquids

| Treatability Group      | MWIR* Waste ID                                                                                                                                    | RCRA Codes                                                                                                                                                                                     | Volume (m <sup>3</sup> ) |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| Aqueous Organic Liquids | LA-W906-0<br>LA-W906-4<br>LA-W906-5<br>LA-W906-6<br>LA-W906-9<br>LA-W906-10<br>LA-W906-15<br>LA-W906-31<br>LA-W906-32<br>LA-W906-33<br>LA-W906-34 | D001, D002, D004, D005, D006, D007, D008, D009, D010, D011, D018, D019, D021, D022, D027, D028, D030, D032, D033, D034, D036, D037, D038, D039, D041, D042, D043, F001, F002, F003, F004, F005 | 0.000                    |
| <b>Totals</b>           |                                                                                                                                                   |                                                                                                                                                                                                | <b>0.000</b>             |

\*MWIR is Mixed Waste Inventory Report.

### 3.1.4 Organic-Contaminated Combustible Solids

Table 3.1.4-1 Treatability Groups for Organic-Contaminated Combustible Solids

| Treatability Group                      | MWIR* Waste ID | RCRA codes                                     | Volume (m <sup>3</sup> ) |
|-----------------------------------------|----------------|------------------------------------------------|--------------------------|
| Organic-Contaminated Combustible Solids | LA-W911        | D001, D004, D008, D009, F001, F002, F003, F005 | 0.000                    |
| <b>Totals</b>                           |                |                                                | <b>0.000</b>             |

\*MWIR is Mixed Waste Inventory Report.

Table 3.1.4-2 Treatability Groups for Organic-Contaminated Noncombustible Solids

| Treatability Group                         | MWIR* Waste ID | RCRA Codes                                                                                                                                                                                           | Volume (m <sup>3</sup> ) |
|--------------------------------------------|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| Organic-Contaminated Noncombustible Solids | LA-W919        | D001, D003, D004, D005, D006, D007, D008, D009, D010, D011, D012, D015, D018, D019, D020, D022, D027, D028, D029, D030, D031, D032, D033, D034, D035, D036, D042, D043, F001, F002, F003, F004, F005 | 0.000                    |
| <b>Totals</b>                              |                |                                                                                                                                                                                                      | <b>0.000</b>             |

\*MWIR is Mixed Waste Inventory Report.

### 3.1.5 Combustible Debris, Activated or Inseparable Lead, Noncombustible Debris

Table 3.1.5-1 Treatability Groups for Combustible Lead, Activated or Inseparable Lead, and Noncombustible Debris

| Treatability Group            | MWIR* Waste ID                                                                                                                                                    | RCRA Codes                                                                         | Volume (m <sup>3</sup> ) |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------|
| Combustible Debris            | LA-W912<br>LA-W912-31<br>LA-W912-32<br>LA-W912-33<br>LA-W912-34<br>LA-W912-36                                                                                     | D001, D002, D003, D005, D006, D007, D008, D009, D011, D035, F001, F002, F003, F005 | 0.000                    |
| Activated Or Inseparable Lead | LA-W921<br>LA-W921-33                                                                                                                                             | D008                                                                               | 0.000                    |
| Noncombustible Debris         | LA-W922<br>LA-W922-17<br>LA-W922-22<br>LA-W922-23<br>LA-W922-24<br>LA-W922-25<br>LA-W922-31<br>LA-W922-32<br>LA-W922-33<br>LA-W922-34<br>LA-W922-35<br>LA-W922-36 | D001, D002, D004, D005, D006, D007, D008, D009, D010, D011                         | 0.000                    |
| <b>Totals</b>                 |                                                                                                                                                                   |                                                                                    | <b>0.000</b>             |

\*MWIR is Mixed Waste Inventory Report.

### 3.1.6 Aqueous Wastes with Heavy Metals, Corrosive Solutions, Aqueous Cyanides, Nitrates, Chromates, and Arsenates

Table 3.1.6-1 Treatability Groups for Aqueous Wastes with Heavy Metals, Corrosive Solutions, Aqueous Cyanides, Nitrates, Chromates, and Arsenates

| Treatability Group                                   | MWIR* Waste ID | RCRA Codes                                                                         | Volume (m <sup>3</sup> ) |
|------------------------------------------------------|----------------|------------------------------------------------------------------------------------|--------------------------|
| Aqueous Wastes with Heavy Metals                     | LA-W913        | D001, D002, D003, D004, D005, D006, D007, D008, D009, D010, D011                   | 0.000                    |
| Corrosive Solutions                                  | LA-W914        | D001, D002                                                                         | 0.000                    |
| Aqueous Cyanides, Nitrates, Chromates, and Arsenates | LA-W915        | D001, D002, D003, D004, D005, D006, D007, D008, D009, D010, D011, F007, P029, P098 | 0.000                    |
| <b>Totals</b>                                        |                |                                                                                    | <b>0.000</b>             |

\*MWIR is Mixed Waste Inventory Report.

### 3.1.7 Water-Reactive Metal

Table 3.1.7-1 Treatability Groups for Water-Reactive Metal

| Treatability Group   | MWIR* Waste ID | RCRA Codes                                     | Volume (m <sup>3</sup> ) |
|----------------------|----------------|------------------------------------------------|--------------------------|
| Water-Reactive Metal | LA-W916        | D001, D003, D004, D005, D007, D008, D010, D011 | 0.000                    |
| <b>Totals</b>        |                |                                                | <b>0.000</b>             |

\*MWIR is Mixed Waste Inventory Report.

### 3.1.8 Compressed Gases Requiring Scrubbing

Table 3.1.8-1 Treatability Groups for Compressed Gases Requiring Scrubbing

| Treatability Group                   | MWIR* Waste ID                                                                                                                        | RCRA Codes                         | Volume (m <sup>3</sup> ) |
|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|--------------------------|
| Compressed Gases Requiring Scrubbing | LA-W917<br>LA-W917-21<br>LA-W917-24<br>LA-W917-25<br>LA-W917-26<br>LA-W917-27<br>LA-W917-28<br>LA-W917-29<br>LA-W917-35<br>LA-W917-36 | D001, D002, D003, D008, D009, P056 | 0.000                    |
| <b>Totals</b>                        |                                                                                                                                       |                                    | <b>0.000</b>             |

\*MWIR is Mixed Waste Inventory Report.

Table 3.1.8-2 Activities and Compliance Dates for Compressed Gases Requiring Scrubbing

| Activity                                                                                                                  | Compliance Dates                                                                                                                            |
|---------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| A. Complete shipping of existing waste to an off-site treatment facility or complete parallel option.                     | September 30, 2026 – Completed on August 21, 2025                                                                                           |
| B. Provide documentation to NMED that waste was received at off-site facility or provide notification of parallel option. | Within 45 working days of receipt of waste at treatment facility or within 45 working days after completion of parallel option. – Completed |

### 3.1.9 Compressed Gases Requiring Oxidation

Table 3.1.9-1 Treatability Groups for Compressed Gases Requiring Oxidation

| Treatability Group                   | MWIR* Waste ID | RCRA Codes | Volume (m <sup>3</sup> ) |
|--------------------------------------|----------------|------------|--------------------------|
| Compressed Gases Requiring Oxidation | LA-W918        | D001, U226 | 0.000                    |
| <b>Totals</b>                        |                |            | <b>0.000</b>             |

\*MWIR is Mixed Waste Inventory Report.

### 3.1.10 Elemental Mercury

Table 3.1.10-1 Treatability Groups for Elemental Mercury

| Treatability Group | MWIR* Waste ID        | RCRA Codes       | Volume (m <sup>3</sup> ) |
|--------------------|-----------------------|------------------|--------------------------|
| Elemental Mercury  | LA-W920<br>LA-W920-16 | D006, D009, F005 | 0.000                    |
| <b>Totals</b>      |                       |                  | <b>0.000</b>             |

\*MWIR is Mixed Waste Inventory Report.

### 3.1.11 Halogenated Organic Liquids, Nonhalogenated Organic Liquids, Bulk Oils, Polychlorinated Biphenyl (PCB) Wastes with RCRA Components, Liquid and Solid Oxidizers

Table 3.1.11-1 Treatability Groups for Halogenated Organic Liquids, Nonhalogenated Organic Liquids, Bulk Oils, PCB Wastes with RCRA Components

| Treatability Group              | MWIR* Waste ID                                    | RCRA Codes                                                                                                                                                 | Volume (m <sup>3</sup> ) |
|---------------------------------|---------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| Halogenated Organic Liquids     | LA-W907                                           | D001, D002, D003, D007, D009, D010, D011, D018, D019, D022, D028, D029, D035, D043, F001, F002, F003, F004, F005, U077, U080, U226, U227, U228, U236       | 0.000                    |
| Nonhalogenated Organic Liquids  | LA-W908<br>LA-W908-18                             | D001, D002, D003, D004, D007, D008, D009, D011, D018, D038, D040, F002, F003, F004, F005, U002, U019, U154, U169, U188, U220, U246                         | 0.000                    |
| Bulk Oils                       | LA-W909<br>LA-W909-15<br>LA-W909-16<br>LA-W909-17 | D002, D004, D005, D006, D007, D008, D009, D010, D011, D021, D027, D039, F001, F002, F003, F005                                                             | 0.000                    |
| PCB Wastes with RCRA Components | LA-W910<br>LA-W910-16                             | D004, D005, D006, D007, D008, D009, D010, D011, D012, D015, D019, D027, D028, D030, D031, D032, D033, D034, D036, D039, D042, D043, F002, F003, F004, F005 | 0.000                    |
| <b>Totals</b>                   |                                                   |                                                                                                                                                            | <b>0.000</b>             |

\*MWIR is Mixed Waste Inventory Report.

Table 3.1.11-2 Additional Treatability Groups

| Treatability Group         | MWIR* Waste ID | RCRA Codes       | Volume (m <sup>3</sup> ) |
|----------------------------|----------------|------------------|--------------------------|
| Liquid And Solid Oxidizers | LA-W923        | D001, D003, D005 | 0.000                    |
| <b>Totals</b>              |                |                  | <b>0.000</b>             |

\*MWIR is Mixed Waste Inventory Report.

### 3.2 Mixed Waste Requiring Further Characterization or for Which Technology Assessment Has Not Been Done

Table 3.2-1 Treatability Groups for Waste Requiring Characterization or Assessment

| Treatability Group                   | MWIR* Waste ID                                                                                         | RCRA Codes                                                                                                                                                             | Volume (m <sup>3</sup> ) |
|--------------------------------------|--------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| Lead Wastes – to be determined (TBD) | LA-W924<br>LA-W924-15<br>LA-W924-16<br>LA-W924-17                                                      | D003, D008                                                                                                                                                             | 0.000                    |
| Mercury Wastes - TBD                 | LA-W925<br>LA-W925-4<br>LA-W925-5<br>LA-W925-6<br>LA-W925-15<br>LA-W925-16<br>LA-W925-17<br>LA-W925-18 | D007, D008, D009, F001                                                                                                                                                 | 0.000                    |
| Compressed Gases - TBD               | LA-W926                                                                                                | D001, D007, D009, D022, P056, U080, U226                                                                                                                               | 0.000                    |
| Biochemical Laboratory Wastes        | LA-W927                                                                                                | D001, D003                                                                                                                                                             | 0.000                    |
| Dewatered Treatment Sludge           | LA-W928<br>LA-W928-31<br>LA-W928-35                                                                    | D001, D002, D003, D004, D005, D006, D007, D008, D009, D010, D011, D018, D019, D021, D022, D028, D037, D038, D039, D040, F001, F002, F003, F004, F005, F006, F007, F009 | 1.268                    |
| Explosives                           | LA-W932                                                                                                | D003                                                                                                                                                                   | 0.000                    |
| Labpacks                             | LA-W933<br>LA-W933-17                                                                                  | D001, D002, D003, D004, D005, D006, D007, D008, D010, F003, F005, D011, P012, P029, P098, P106, P113, P120, U131, U144, U145, U188, U190, U204, U216, U219             | 0.000                    |
| High Activity Waste                  | LA-W934<br>LA-W934-16<br>LA-W934-19<br>LA-W934-20<br>LA-W934-24<br>LA-W934-27                          | D001, D003, D008, D009                                                                                                                                                 | 1.477                    |
| <b>Totals</b>                        |                                                                                                        |                                                                                                                                                                        | <b>2.745</b>             |

\*MWIR is Mixed Waste Inventory Report.

Table 3.2-2 Activities and Compliance Dates for Wastes Requiring Characterization or Assessment

| Activity                                                                                                                                                                     | Compliance Dates                                                                                                               |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| A. Complete shipping of waste to an off-site treatment facility or submit documentation assigning waste items to applicable treatability groups or complete parallel option. | September 30, 2028                                                                                                             |
| B. Provide documentation to NMED that waste was received at off-site facility or provide notification of parallel option.                                                    | Within 45 working days of receipt of waste at off-site facility or within 45 working days after completion of parallel option. |

LANL's inventory of *High Activity Waste, LA-W934* consists of five containers with a combined volume of 1.477 m<sup>3</sup>.

Triad has proposed an extension for the High Activity Waste, LA-W934 to September 30, 2028, in the *Site Treatment Plan, Fiscal Year 2025 Annual Update and Proposed Revision 36.0, Federal Facility Compliance Order, October 4, 1995, Los Alamos National Laboratory* report.

The LA-W934, High Activity Waste treatability group, consists of five containers. Four containers are the FTWCs and are composed of molecular sieves loaded with tritium water vapor, and squib assemblies containing lead with tritium. The fifth container is composed of tritium traps with mercury (this container is not a FTWC). The FTWCs required venting at Technical Area G and prior to transport to LANL's Weapons Engineering Tritium Facility (WETF), where they will undergo repackaging activities before shipment to an off-site disposal facility. These activities will be conducted at Technical Area G and at WETF under the revised Temporary Authorization (LA-UR-20-22103), *Withdrawal and Resubmittal of a Temporary Authorization Request for Waste Treatment, Storage, and Repackaging, Los Alamos National Laboratory Hazardous Waste Facility Permit, EPA ID# NM0890010515*, that was submitted to NMED March 9, 2020 (EPC-DO: 20-074). NMED's approval was sent September 4, 2025, *Approval With Modifications of Temporary Authorization Request Class 2 Permit Modification for Waste Treatment, Storage, and Repackaging of Four Flanged Tritium Waste Containers LANL Hazardous Waste Facility Permit Los Alamos National Laboratory EPA ID # NM0890010515, HWB-LANL-19-03*.

Due to the presence of elemental mercury in the fifth container, sorting and segregation is not appropriate. This container is also under the same compliance date of September 29, 2026, and will require further discussion and planning toward options for a path forward, which has not been acted on to date. The fifth container is stored at TA-54, Area G. There are plans, which NMED must approve, to move the FTWCS to WETF and then transfer to WCS for final disposal. Once the FTWCS containers have been moved, the 5th container will be available for re-evaluation and potentially be transferred to WCS for possible treatment and final disposal.

### 3.3 Plans for Other Types of Activities

The following subsection summarizes plans for other types of activities:

#### 3.3.1 Lead Decontamination

Table 3.3.1-1 Treatability Groups for Lead Decontamination

| Treatability Group               | MWIR* Waste ID | First Category Volume (m <sup>3</sup> ) | Second Category Volume (m <sup>3</sup> ) | Total Volume (m <sup>3</sup> ) |
|----------------------------------|----------------|-----------------------------------------|------------------------------------------|--------------------------------|
| Lead For Surface Decontamination | LA-W930-0      | 0.000                                   | 0.000                                    | 0.000                          |
|                                  | LA-W930-5      |                                         |                                          |                                |
|                                  | LA-W930-6      |                                         |                                          |                                |
| <b>Totals</b>                    |                | <b>0.000</b>                            | <b>0.000</b>                             | <b>0.000</b>                   |

\*MWIR is Mixed Waste Inventory Report.

**Treatment:** Any lead not acceptable for on-site or off-site lead decontamination, and any lead unsuccessfully decontaminated, will be designated in the following two categories: (1) for treatment and disposal at an off-site facility or (2) for recycle through an off-site capability, such as metal melting to create shielding blocks or a DOE lead bank. Non-conforming items will be reassigned to appropriate treatability groups in accordance with the FFCO.

### 3.3.2 Sorting, Surveying, and Decontamination

Table 3.3.2-1 Treatability Groups for Sorting, Surveying, and Decontamination

| Treatability Group                    | MWIR* Waste ID       | To Be Surveyed Volume (m <sup>3</sup> ) | To Receive RCRA and Radiological Characterization Volume (m <sup>3</sup> ) | That Cannot or Should Not Be Sampled Volume (m <sup>3</sup> ) | Total Volume (m <sup>3</sup> ) |
|---------------------------------------|----------------------|-----------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------------|--------------------------------|
| Nonradioactive or Suspect Waste Items | LA-W929<br>LA-W929-5 | 0.000                                   | 0.000                                                                      | 0.000                                                         | 0.000                          |
| <b>Totals</b>                         |                      | <b>0.000</b>                            | <b>0.000</b>                                                               | <b>0.000</b>                                                  | <b>0.000</b>                   |

\*MWIR is Mixed Waste Inventory Report.

### 3.3.3 Lead Requiring Sorting

Table 3.3.3-1 Treatability Groups for Lead Requiring Sorting

| Treatability Group     | MWIR* Waste ID | RCRA Codes | Volume (m <sup>3</sup> ) |
|------------------------|----------------|------------|--------------------------|
| Lead Requiring Sorting | LA-W931        | D008       | 0.000                    |
| <b>Totals</b>          |                |            | <b>0.000</b>             |

\*MWIR is Mixed Waste Inventory Report.

**Treatment:** Wastes in this treatability group will require different treatment processes. Drums will be opened, the contents removed, and the waste repackaged based on appropriate treatment requirements. Wastes in this treatability group are primarily lead pieces, lead shot, and lead contaminated soils that were packaged in the same drum.

The wastes will be reclassified as the applicable treatability group after physical separation and repackaging. The waste will be treated by appropriate technology.

### 3.3.4 10–100 nCi/g Waste

Table 3.3.4-1 Treatability Groups for 10–100 nCi/g Waste

| Treatability Group | MWIR* Waste ID                                                                                                                                                                                                                                                      | RCRA Codes                                                                                                                                                                               | Volume (m <sup>3</sup> ) |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| 10–100 nCi/g       | LA-W935<br>LA-W935-19<br>LA-W935-20<br>LA-W935-21<br>LA-W935-22<br>LA-W935-23<br>LA-W935-24<br>LA-W935-25<br>LA-W935-26<br>LA-W935-27<br>LA-W935-28<br>LA-W935-29<br>LA-W935-30<br>LA-W935-31<br>LA-W935-32<br>LA-W935-33<br>LA-W935-34<br>LA-W935-35<br>LA-W935-36 | D004, D005, D006, D007, D008, D009, D010, D011, D018, D019, D021, D022, D026, D027, D028, D029, D030, D035, D036, D037, D038, D039, D040, D043, F001, F002, F004, F005, F006, F007, F009 | 3.086                    |
| <b>Totals</b>      |                                                                                                                                                                                                                                                                     |                                                                                                                                                                                          | <b>3.086</b>             |

\*MWIR is Mixed Waste Inventory Report.

**Treatment:** Waste in this treatability group consists of a population of legacy drums packaged and managed as MTRU (>100 nCi/g) but, after assay, were determined to be MLLW (10–100 nCi/g). Once confirmed, these drums are segregated from other TRU waste and stored in a designated MLLW storage area. Waste profiles are prepared to allow acceptance into the MLLW population, and drums are relabeled appropriately and reclassified from TRU to MLLW in the database.

LANL maintains an MTRU inventory with accumulation start dates from previous years on each MTRU container. The container reclassified from MTRU to LA-W935 MLLW will inherit the accumulation start date set forth by the parent. Since MLLW is created throughout the fiscal year up to the compliance date, this situation can challenge the ability to ship before the compliance due date. Therefore, this is an ongoing waste stream controlled by the accumulation start date set by the original MTRU parent.

When a MTRU parent waste container is remediated, the waste contents are removed, WIPP waste acceptance criteria prohibited items are addressed, and the remaining waste is placed into one or more new containers. After this process is complete, the original parent waste container remains radiologically contaminated and usually can be managed as LLW. Empty containers are managed as “RCRA empty” containers if they meet the “RCRA empty” criteria in 40 CFR 261.7. Empty containers that have lead liners must carry an EPA hazardous waste number (HWN) for lead (D008) and be managed as MLLW. If after real-time radiography assay, empty containers are still found to contain residual amounts of waste material that do not meet the “RCRA empty” criteria, the containers are to be labeled with the EPA HWN assigned to the original parent container, as indicated by the parent’s waste stream profile.

Table 3.3.4-2 Activities and Compliance Dates for 10–100 nCi/g Waste

| Activity                                                                                                                  | Compliance Dates                                                                                                                |
|---------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| A. Complete radiological characterization.                                                                                | September 30, 2028                                                                                                              |
| B. Complete shipment of existing waste to off-site facilities for treatment, or complete parallel options.                | September 30, 2028                                                                                                              |
| C. Provide documentation to NMED that waste was received at off-site facility or provide notification of parallel option. | Within 45 working days of receipt of waste at treatment facility or within 45 working days after completion of parallel option. |

The MLLW drums are prepared for treatment and disposal to an off-site facility using waste generator acceptable knowledge documentation, real-time radiography, and nondestructive assay data. The estimated waste volumes will be subtracted from the MTRU STP inventory and added to the MLLW STP inventory as the waste is reclassified as MLLW. However, because of the repacking process, the apparent volume of waste will reflect the number of additional containers needed to repackage the waste into compliant configurations for transportation and disposal. Empty TRU containers, which includes a population of empty TRU parent containers that previously contained nitrate salts will also undergo recharacterization and may be reclassified as LLW or if determined to not meet the definition of RCRA-empty, reclassified as MLLW.

The recharacterization process resumed in FY 2016 for waste to be accepted at off-site treatment and disposal facilities and will continue to produce 10–100 nCi/g Waste (LA-W935). In 2018, N3B took over the operational responsibility of TA-54. Operational start-up included purchasing and installing treatment equipment and repairing existing deficiencies.

### 3.4 Management of “Missing” Items

Table 3.4-1 Waste Category for “Missing Waste”

| Category                                 | MWIR* Waste ID | Container ID | Volume (m <sup>3</sup> ) |
|------------------------------------------|----------------|--------------|--------------------------|
| Missing/Nonexistent/To be verified (TBV) |                |              | 0.000                    |
| <b>Totals</b>                            |                |              | <b>0.000</b>             |

\*MWIR is Mixed Waste Inventory Report.

**Treatment:** During visual inspections and sampling activities in support of STP waste work-off, occasionally an item cannot be found, or it is not located in the expected containers, according to the LANL data files for the waste item. In some instances, such items cannot be verified as having been received in storage at LANL, and follow-up investigations of the record files reveal that although the items were included in the original STP inventory, the waste items were never generated.

Some waste items were determined not to exist after visual inspection and document review. When Respondents determine that an STP covered waste item does not exist, transfer of the item to the category called “Missing/nonexistent/TBV (to be verified)” is requested through this revision Annual Update.

If, at any time, any of these items is discovered in the inventory, NMED shall be notified and approval shall be requested for assignment of the rediscovered items to the appropriate treatability group. If necessary, discovered items will be assigned new Activities and Compliance Dates in accordance with the terms of the FFCO.

## 4.0 MIXED TRANSURANIC WASTE

**Treatment Group(s):** Assorted MTRU Waste

**Off-site Disposal:** MTRU waste at LANL will be shipped for disposal at WIPP, located in Carlsbad, New Mexico.

**Disposal:** Waste volumes listed in Appendix E, Table E-3, constitute the remaining original population of the Framework Agreement of “non-cemented above-ground EM Legacy TRU” and “above-ground cemented EM Legacy TRU” that is MTRU waste only. Volume adjustments noted in Appendix G, Table G-3, are due to corrections of database entries, treatability groups, EPA codes, overpacks removed/added, containers repacked and shipped/held for waste items identified as the non-cemented and cemented above-ground EM Legacy TRU for MTRU STP waste.

Table 4.0-1 Activities and Compliance Dates for N3B MTRU Inventory

| Activity                                                                                              | Compliance Dates  |
|-------------------------------------------------------------------------------------------------------|-------------------|
| A. Complete transfer of existing waste to Dome 375, a TA-54-permitted facility, for shipments to WIPP | November 30, 2028 |

**Transfer of Covered MTRU Inventory:** In the FY 2025 reported waste volume for STP-covered MTRU inventory is 2109.010 m<sup>3</sup> (Table 2.2-1 in Part 1).

Triad’s MTRU covered waste will be either shipped directly from TA-55 or transported to the Radioassay and Nondestructive Testing (RANT) facility for shipment to WIPP.

The de-inventory of N3B’s MTRU waste at TA-54 Area G will take multiple years. The MTRU waste inventory will require management at a LANL remediation facility and recharacterization as the waste acceptance criteria for WIPP has changed since the waste was generated. TA-54 will not receive any programmatic newly generated waste. The LANL Hazardous Waste Permit specifies that MTRU waste generated prior to April 21, 2011, cannot be stored at the TWF. Respondents resumed shipment of MTRU waste to WIPP in October 2018.

## 4.1 Management of “Missing” Items

Table 4.1-2 Waste Category for “Missing Waste”

| Category                | Treatability Groups              | Volume (m <sup>3</sup> ) |
|-------------------------|----------------------------------|--------------------------|
| Missing/Nonexistent/TBV | Cemented Sludge                  | 0.000                    |
|                         | Combustible-Noncombustible Waste | 0.000                    |
|                         | Combustible Waste                | 0.000                    |
| <b>Totals</b>           |                                  | <b>0.000</b>             |

**Treatment:** During visual inspections in support of STP waste work-off, occasionally an item cannot be found, or it is not located in the expected containers, according to WCATs. In some instances, such items cannot be verified as having been received in storage at LANL and follow-up investigations within WCATs reveal that although the items were included in the original STP inventory, the waste items were never generated.

Some items were determined not to exist after visual inspection and document review. When Respondents determine that an STP covered waste item does not exist, transfer of the item to the category called “Missing/nonexistent/TBV” is requested through this revision Annual Update.

If, at any time, any of these items are discovered in the inventory, NMED will be notified and approval shall be requested for assignment of the rediscovered items to the appropriate treatability group.



# **APPENDICES**



## APPENDIX A CURRENT YEAR MLLW INVENTORY DETAIL

Table A-1 FY 2025 N3B MLLW Inventory Detailed Update by Treatability Group

| CP <sup>1</sup><br>Section<br>Part III | MWIR <sup>1</sup><br>Waste<br>ID | Treatability<br>Group/Category                             | FY 2024<br>Annual<br>Update<br>(m <sup>3</sup> ) <sup>2</sup> | Proposed<br>Revision<br>36.0<br>(m <sup>3</sup> ) <sup>2</sup> | Comments                                   | FY 2025<br>Annual<br>Update<br>(m <sup>3</sup> ) <sup>2</sup> | Projection<br>FY 2026–<br>FY 2031<br>(m <sup>3</sup> ) |
|----------------------------------------|----------------------------------|------------------------------------------------------------|---------------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------|---------------------------------------------------------------|--------------------------------------------------------|
| 3.1.1                                  | LA-W901                          | IPA Wastes                                                 | 0                                                             | 0                                                              |                                            | 0                                                             | 0                                                      |
| 3.1.1                                  | LA-W902                          | Scintillation Fluids                                       | 0                                                             | 0                                                              |                                            | 0                                                             | 0                                                      |
| 3.1.2                                  | LA-W903                          | Lead Blankets                                              | 0                                                             | 0                                                              |                                            | 0                                                             | 0                                                      |
| 3.1.2                                  | LA-W904                          | Soil with Heavy Metals                                     | 0                                                             | 5.097                                                          | New covered                                | 5.097                                                         | 0                                                      |
| 3.1.2                                  | LA-W905                          | ER Soils                                                   | 0                                                             | 0                                                              |                                            | 0                                                             | 0                                                      |
| 3.1.3                                  | LA-W906                          | Aqueous Organic Liquids                                    | 0                                                             | 0                                                              |                                            | 0                                                             | 0                                                      |
| 3.1.4                                  | LA-W911                          | Organic-Contaminated<br>Combustible Solids                 | 0                                                             | 0                                                              |                                            | 0                                                             | 0                                                      |
| 3.1.4                                  | LA-W919                          | Organic-Contaminated<br>Noncombustible Solids              | 0                                                             | 0                                                              |                                            | 0                                                             | 0                                                      |
| 3.1.5                                  | LA-W912                          | Combustible Debris                                         | 120.840                                                       | 0                                                              | New covered                                | 0                                                             | 0                                                      |
|                                        |                                  |                                                            |                                                               | -120.840                                                       | Shipped off-site for<br>treatment/disposal |                                                               |                                                        |
| 3.1.5                                  | LA-W921                          | Activated or Inseparable<br>Lead                           | 0                                                             | 0                                                              | New covered                                | 0                                                             | 0                                                      |
|                                        |                                  |                                                            |                                                               | 0                                                              | Shipped off-site for<br>treatment/disposal |                                                               |                                                        |
| 3.1.5                                  | LA-W922                          | Noncombustible Debris                                      | 20.000                                                        | -14.300                                                        | Administrative<br>adjustments              | 0                                                             | 0                                                      |
|                                        |                                  |                                                            |                                                               | 0                                                              | New covered                                |                                                               |                                                        |
|                                        |                                  |                                                            |                                                               | -5.700                                                         | Shipped off-site for<br>treatment/disposal |                                                               |                                                        |
| 3.1.6                                  | LA-W913                          | Aqueous Wastes with<br>Heavy Metals                        | 0                                                             | 0                                                              |                                            | 0                                                             | 0                                                      |
| 3.1.6                                  | LA-W914                          | Corrosive Solutions                                        | 0                                                             | 0                                                              |                                            | 0                                                             | 0                                                      |
| 3.1.6                                  | LA-W915                          | Aqueous Cyanides,<br>Nitrates, Chromates, and<br>Arsenates | 0                                                             | 0                                                              |                                            | 0                                                             | 0                                                      |
| 3.1.7                                  | LA-W916                          | Water-Reactive Wastes                                      | 0                                                             | 0                                                              |                                            | 0                                                             | 0                                                      |
| 3.1.8                                  | LA-W917                          | Compressed Gases<br>Requiring Scrubbing                    | 0.208                                                         | 0                                                              | Administrative<br>adjustments              | 0                                                             | 0                                                      |
|                                        |                                  |                                                            |                                                               | -0.208                                                         | Shipped off-site for<br>treatment/disposal |                                                               |                                                        |
| 3.1.9                                  | LA-W918                          | Compressed Gases<br>Requiring Oxidation                    | 0                                                             | 0                                                              |                                            | 0                                                             | 0                                                      |
| 3.1.10                                 | LA-W920                          | Elemental Mercury                                          | 0                                                             | 0                                                              |                                            | 0                                                             | 0                                                      |
| 3.1.11                                 | LA-W907                          | Halogenated Organic<br>Liquids                             | 0                                                             | 0                                                              |                                            | 0                                                             | 0                                                      |

Table A-1 continued

| CP <sup>1</sup><br>Section<br>Part III | MWIR <sup>1</sup><br>Waste<br>ID | Treatability<br>Group/Category                       | FY 2024<br>Annual<br>Update<br>(m³) <sup>2</sup> | Proposed<br>Revision<br>36.0<br>(m³) <sup>2</sup> | Comments                                | FY 2025<br>Annual<br>Update<br>(m³) <sup>2</sup> | Projection<br>FY 2026 -<br>FY 2031<br>(m³) |
|----------------------------------------|----------------------------------|------------------------------------------------------|--------------------------------------------------|---------------------------------------------------|-----------------------------------------|--------------------------------------------------|--------------------------------------------|
| 3.1.11                                 | LA-W908                          | Nonhalogenated Organic Liquids                       | 0                                                | 0                                                 |                                         | 0                                                | 0                                          |
| 3.1.11                                 | LA-W909                          | Bulk Oils                                            | 0                                                | 0                                                 |                                         | 0                                                | 0                                          |
| 3.1.11                                 | LA-W910                          | PCB Wastes with RCRA Components                      | 0                                                | 0                                                 |                                         | 0                                                | 0                                          |
| 3.1.11                                 | LA-W923                          | Liquid and Solid Oxidizers                           | 0                                                | 0                                                 |                                         | 0                                                | 0                                          |
| 3.2                                    | LA-W924                          | Lead Wastes – TBD                                    | 0                                                | 0                                                 |                                         | 0                                                | 0                                          |
| 3.2                                    | LA-W925                          | Mercury Wastes – TBD                                 | 0                                                | 0                                                 |                                         | 0                                                | 0                                          |
| 3.2                                    | LA-W926                          | Compressed Gases – TBD                               | 0                                                | 0                                                 |                                         | 0                                                | 0                                          |
| 3.2                                    | LA-W927                          | Biochemical Laboratory Wastes                        | 0                                                | 0                                                 |                                         | 0                                                | 0                                          |
| 3.2                                    | LA-W928                          | Dewatered Treatment Sludge                           | 1.268                                            | 0                                                 | Shipped off-site for treatment/disposal | 1.268                                            | 0                                          |
| 3.2                                    | LA-W932                          | Explosives                                           | 0                                                | 0                                                 |                                         | 0                                                | 0                                          |
| 3.2                                    | LA-W933                          | Labpacks                                             | 0                                                | 0                                                 |                                         | 0                                                | 0                                          |
| 3.2                                    | LA-W934                          | High Activity Waste <sup>3</sup>                     | 1.477                                            | 0                                                 | Administrative adjustments              | 1.477                                            | 0                                          |
|                                        |                                  |                                                      |                                                  | 0                                                 | Shipped off-site for treatment/disposal |                                                  |                                            |
| 3.3.1                                  | LA-W930                          | Lead for Surface Decontamination                     | 0                                                | 0                                                 |                                         | 0                                                | 0                                          |
| 3.3.2                                  | LA-W929                          | Nonradioactive or Suspect Waste Items to be Surveyed | 0                                                | 0                                                 |                                         | 0                                                | 0                                          |
| 3.3.3                                  | LA-W931                          | Lead Requiring Sorting                               | 0                                                | 0                                                 |                                         | 0                                                | 0                                          |
| 3.3.4                                  | LA-W935                          | 10–100 nCi/g Waste                                   | 10.695                                           | 0                                                 | Administrative adjustments              | 3.086                                            | 50                                         |
|                                        |                                  |                                                      |                                                  | 0                                                 | New covered                             |                                                  |                                            |
|                                        |                                  |                                                      |                                                  | -7.609                                            | Shipped off-site for treatment/disposal |                                                  |                                            |
| Totals                                 |                                  |                                                      | 154.488                                          | -143.560                                          |                                         | 10.928                                           | 50                                         |

<sup>1</sup> CP is Compliance Plan; MWIR is Mixed Waste Inventory Report.

<sup>2</sup> Values were rounded to three significant figures after the decimal point.

<sup>3</sup> High activity waste (FTWCs and cryotaps) is located at TA-54 Area G but is managed by Triad.

Table A-2 FY 2025 Triad MLLW Inventory Detailed Update by Treatability Group

| CP <sup>1</sup><br>Section<br>Part III | MWIR <sup>1</sup><br>Waste<br>ID | Treatability<br>Group/Category                             | FY 2024<br>Annual<br>Update<br>(m <sup>3</sup> ) <sup>2</sup> | Proposed<br>Revision<br>36.0<br>(m <sup>3</sup> ) <sup>2</sup> | Comments | FY 2025<br>Annual<br>Update<br>(m <sup>3</sup> ) <sup>2</sup> | Projection<br>FY 2026–<br>FY 2031<br>(m <sup>3</sup> ) |
|----------------------------------------|----------------------------------|------------------------------------------------------------|---------------------------------------------------------------|----------------------------------------------------------------|----------|---------------------------------------------------------------|--------------------------------------------------------|
| 3.1.1                                  | LA-W901                          | IPA Wastes                                                 | 0                                                             | 0                                                              |          | 0                                                             | 0                                                      |
| 3.1.1                                  | LA-W902                          | Scintillation Fluids                                       | 0                                                             | 0                                                              |          | 0                                                             | 0                                                      |
| 3.1.2                                  | LA-W903                          | Lead Blankets                                              | 0                                                             | 0                                                              |          | 0                                                             | 0                                                      |
| 3.1.2                                  | LA-W904                          | Soil with Heavy Metals                                     | 0                                                             | 0                                                              |          | 0                                                             | 0                                                      |
| 3.1.2                                  | LA-W905                          | ER Soils                                                   | 0                                                             | 0                                                              |          | 0                                                             | 0                                                      |
| 3.1.3                                  | LA-W906                          | Aqueous Organic Liquids                                    | 0                                                             | 0                                                              |          | 0                                                             | 0                                                      |
| 3.1.4                                  | LA-W911                          | Organic-Contaminated<br>Combustible Solids                 | 0                                                             | 0                                                              |          | 0                                                             | 0                                                      |
| 3.1.4                                  | LA-W919                          | Organic-Contaminated<br>Noncombustible Solids              | 0                                                             | 0                                                              |          | 0                                                             | 0                                                      |
| 3.1.5                                  | LA-W912                          | Combustible Debris                                         | 0                                                             | 0                                                              |          | 0                                                             | 0                                                      |
| 3.1.5                                  | LA-W921                          | Activated or Inseparable<br>Lead                           | 0                                                             | 0                                                              |          | 0                                                             | 0                                                      |
| 3.1.5                                  | LA-W922                          | Noncombustible Debris                                      | 0                                                             | 0                                                              |          | 0                                                             | 0                                                      |
| 3.1.6                                  | LA-W913                          | Aqueous Wastes with<br>Heavy Metals                        | 0                                                             | 0                                                              |          | 0                                                             | 0                                                      |
| 3.1.6                                  | LA-W914                          | Corrosive Solutions                                        | 0                                                             | 0                                                              |          | 0                                                             | 0                                                      |
| 3.1.6                                  | LA-W915                          | Aqueous Cyanides,<br>Nitrates, Chromates, and<br>Arsenates | 0                                                             | 0                                                              |          | 0                                                             | 0                                                      |
| 3.1.7                                  | LA-W916                          | Water-Reactive Wastes                                      | 0                                                             | 0                                                              |          | 0                                                             | 0                                                      |
| 3.1.8                                  | LA-W917                          | Compressed Gases<br>Requiring Scrubbing                    | 0                                                             | 0                                                              |          | 0                                                             | 0                                                      |
| 3.1.9                                  | LA-W918                          | Compressed Gases<br>Requiring Oxidation                    | 0                                                             | 0                                                              |          | 0                                                             | 0                                                      |
| 3.1.10                                 | LA-W920                          | Elemental Mercury                                          | 0                                                             | 0                                                              |          | 0                                                             | 0                                                      |
| 3.1.11                                 | LA-W907                          | Halogenated Organic<br>Liquids                             | 0                                                             | 0                                                              |          | 0                                                             | 0                                                      |
| 3.1.11                                 | LA-W908                          | Nonhalogenated Organic<br>Liquids                          | 0                                                             | 0                                                              |          | 0                                                             | 0                                                      |
| 3.1.11                                 | LA-W909                          | Bulk Oils                                                  | 0                                                             | 0                                                              |          | 0                                                             | 0                                                      |
| 3.1.11                                 | LA-W910                          | PCB Wastes with RCRA<br>Components                         | 0                                                             | 0                                                              |          | 0                                                             | 0                                                      |
| 3.1.11                                 | LA-W923                          | Liquid and Solid<br>Oxidizers                              | 0                                                             | 0                                                              |          | 0                                                             | 0                                                      |
| 3.2                                    | LA-W924                          | Lead Wastes – TBD                                          | 0                                                             | 0                                                              |          | 0                                                             | 0                                                      |
| 3.2                                    | LA-W925                          | Mercury Wastes – TBD                                       | 0                                                             | 0                                                              |          | 0                                                             | 0                                                      |
| 3.2                                    | LA-W926                          | Compressed Gases – TBD                                     | 0                                                             | 0                                                              |          | 0                                                             | 0                                                      |
| 3.2                                    | LA-W927                          | Biochemical Laboratory<br>Wastes                           | 0                                                             | 0                                                              |          | 0                                                             | 0                                                      |

Table A-2 continued

| CP <sup>1</sup><br>Section<br>Part III | MWIR <sup>1</sup><br>Waste<br>ID | Treatability<br>Group/Category                       | FY 2024<br>Annual<br>Update<br>(m³) <sup>2</sup> | Proposed<br>Revision<br>36.0<br>(m³) <sup>2</sup> | Comments                                | FY 2025<br>Annual<br>Update<br>(m³) <sup>2</sup> | Projection<br>FY 2026–<br>FY 2031<br>(m³) |
|----------------------------------------|----------------------------------|------------------------------------------------------|--------------------------------------------------|---------------------------------------------------|-----------------------------------------|--------------------------------------------------|-------------------------------------------|
| 3.2                                    | LA-W928                          | Dewatered Treatment Sludge                           | 0                                                | 0                                                 |                                         | 0                                                | 0                                         |
| 3.2                                    | LA-W932                          | Explosives                                           | 0                                                | 0                                                 |                                         | 0                                                | 0                                         |
| 3.2                                    | LA-W933                          | Labpacks                                             | 0                                                | 0                                                 |                                         | 0                                                | 0                                         |
| 3.2                                    | LA-W934                          | High Activity Waste                                  | 0                                                | 0                                                 |                                         | 0                                                | 0                                         |
| 3.3.1                                  | LA-W930                          | Lead for Surface Decontamination                     | 0                                                | 0                                                 |                                         | 0                                                | 0                                         |
| 3.3.2                                  | LA-W929                          | Nonradioactive or Suspect Waste Items to be Surveyed | 0                                                | 0                                                 |                                         | 0                                                | 0                                         |
| 3.3.3                                  | LA-W931                          | Lead Requiring Sorting                               | 0                                                | 0                                                 |                                         | 0                                                | 0                                         |
| 3.3.4                                  | LA-W935                          | 10–100 nCi/g Waste                                   | 0.738                                            | -0.738                                            | Administrative adjustments              | 0                                                | 50                                        |
|                                        |                                  |                                                      |                                                  | 1.154                                             | New covered                             |                                                  |                                           |
|                                        |                                  |                                                      |                                                  | -1.154                                            | Shipped off-site for treatment/disposal |                                                  |                                           |
| Totals                                 |                                  |                                                      | 0.738                                            | -0.738                                            |                                         | 0                                                | 50                                        |

<sup>1</sup> CP is Compliance Plan; MWIR is Mixed Waste Inventory Report.

<sup>2</sup> Values were rounded to three significant figures after the decimal point.

## APPENDIX B CURRENT YEAR MLLW SHIPMENT DETAIL

Table B-1 FY 2025 LANL MLLW Shipped Off-site for Treatment and Disposal

| CP <sup>1</sup><br>Section<br>Part III | MWIR <sup>1</sup><br>Waste ID | Treatability Group                      | Manifest<br>Number | Destination                     | Date<br>Shipped | Total<br>Volume<br>(m <sup>3</sup> ) <sup>2</sup> |
|----------------------------------------|-------------------------------|-----------------------------------------|--------------------|---------------------------------|-----------------|---------------------------------------------------|
| 3.1.5                                  | LA-W912                       | Combustible Debris                      | 014574080FLE       | PermaFix FL                     | 9/18/2025       | 120.840                                           |
| 3.1.5                                  | LA-W922                       | Noncombustible Debris                   | 014574079FLE       | PermaFix FL                     | 8/21/2025       | 5.700                                             |
| 3.1.8                                  | LA-W917                       | Compressed Gases<br>Requiring Scrubbing | 014574079FLE       | PermaFix FL                     | 8/21/2025       | 0.208                                             |
| 3.3.4                                  | LA-W935                       | 10–100 nCi/g Waste                      | 014574074FLE       | PermaFix FL                     | 7/31/2025       | 3.106                                             |
| 3.3.4                                  | LA-W935                       | 10–100 nCi/g Waste                      | 014574076FLE       | PermaFix FL                     | 8/21/2025       | 2.610                                             |
| 3.3.4                                  | LA-W935                       | 10–100 nCi/g Waste                      | 014574079FLE       | PermaFix FL                     | 8/21/2025       | 1.893                                             |
| N3B Shipped Off-site                   |                               |                                         |                    |                                 |                 | 134.357                                           |
| 3.3.4                                  | LA-W935                       | 10–100 nCi/g Waste                      | 013909210FLE       | PermaFix FL                     | 2/4/2025        | 0.208                                             |
| 3.3.4                                  | LA-W935                       | 10–100 nCi/g Waste                      | 013909075FLE       | Waste Control Specialists<br>TX | 11/5/2024       | 0.946                                             |
| Triad Shipped Off-site                 |                               |                                         |                    |                                 |                 | 1.154                                             |
| Total Shipped Off-site                 |                               |                                         |                    |                                 |                 | 135.511                                           |

<sup>1</sup> CP is Compliance Plan; MWIR is Mixed Waste Inventory Report.

<sup>2</sup> Values were rounded to three significant figures after the decimal point.

## APPENDIX C CURRENT YEAR MLLW ADMINISTRATIVE ADJUSTMENTS

Table C-1 FY 2025 N3B MLLW Inventory Administrative Adjustments

| CP <sup>1</sup><br>Section<br>Part III | MWIR <sup>1</sup><br>Waste ID | Treatability Group    | Administrative Adjustment                                  | Volume<br>(m <sup>3</sup> ) <sup>2</sup> |
|----------------------------------------|-------------------------------|-----------------------|------------------------------------------------------------|------------------------------------------|
| 3.1.5                                  | LA-W922                       | Noncombustible Debris | Volume change from 20 m <sup>3</sup> to 5.7 m <sup>3</sup> | -14.300                                  |
| Noncombustible Debris Adjustment       |                               |                       |                                                            | -14.300                                  |
| Total Adjustments                      |                               |                       |                                                            | -14.300                                  |

<sup>1</sup> CP is Compliance Plan; MWIR is Mixed Waste Inventory Report.

<sup>2</sup> Values were rounded to three significant figures after the decimal point.

Table C-2 FY 2025 Triad MLLW Inventory Administrative Adjustments

| CP <sup>1</sup><br>Section<br>Part III | MWIR <sup>1</sup><br>Waste ID | Treatability Group | Administrative Adjustment                  | Volume<br>(m <sup>3</sup> ) <sup>2</sup> |
|----------------------------------------|-------------------------------|--------------------|--------------------------------------------|------------------------------------------|
| 3.3.4                                  | LA-W935                       | 10–100 nCi/g Waste | Incorrect assignment of non-STP containers | -0.738                                   |
|                                        |                               |                    |                                            |                                          |
| 10–100 nCi/g Waste Adjustment          |                               |                    |                                            | -0.738                                   |
| Total Adjustments                      |                               |                    |                                            | -0.738                                   |

<sup>1</sup> CP is Compliance Plan; MWIR is Mixed Waste Inventory Report.

<sup>2</sup> Values were rounded to three significant figures after the decimal point.

## APPENDIX D PREVIOUS YEAR MLLW INVENTORY DETAIL

Table D-1 FY 2024 N3B MLLW Inventory Detailed Update by Treatability Group

| CP <sup>1</sup><br>Section | MWIR <sup>1</sup><br>Waste ID | Treatability<br>Group/Category                             | FY 2023<br>Annual<br>Update<br>(m <sup>3</sup> ) <sup>2</sup> | Proposed<br>Revision<br>35.0<br>(m <sup>3</sup> ) <sup>2</sup> | Comments                                   | FY 2024<br>Annual<br>Update<br>(m <sup>3</sup> ) <sup>2</sup> | Projection<br>FY 2025–<br>FY 2030<br>(m <sup>3</sup> ) |
|----------------------------|-------------------------------|------------------------------------------------------------|---------------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------|---------------------------------------------------------------|--------------------------------------------------------|
| 3.1.1                      | LA-W901                       | IPA Wastes                                                 | 0                                                             | 0                                                              |                                            | 0                                                             | 0                                                      |
| 3.1.1                      | LA-W902                       | Scintillation Fluids                                       | 0                                                             | 0                                                              |                                            | 0                                                             | 0                                                      |
| 3.1.2                      | LA-W903                       | Lead Blankets                                              | 0                                                             | 0                                                              |                                            | 0                                                             | 0                                                      |
| 3.1.2                      | LA-W904                       | Soil with Heavy Metals                                     | 0                                                             | 0                                                              |                                            | 0                                                             | 0                                                      |
| 3.1.2                      | LA-W905                       | ER Soils                                                   | 0                                                             | 0                                                              |                                            | 0                                                             | 0                                                      |
| 3.1.3                      | LA-W906                       | Aqueous Organic Liquids                                    | 0                                                             | 0                                                              |                                            | 0                                                             | 0                                                      |
| 3.1.4                      | LA-W911                       | Organic-Contaminated<br>Combustible Solids                 | 0                                                             | 0                                                              |                                            | 0                                                             | 0                                                      |
| 3.1.4                      | LA-W919                       | Organic-Contaminated<br>Noncombustible Solids              | 0                                                             | 0                                                              |                                            | 0                                                             | 0                                                      |
| 3.1.5                      | LA-W912                       | Combustible Debris                                         | 120.840                                                       | 0                                                              | New covered                                | 120.840                                                       | 0                                                      |
|                            |                               |                                                            |                                                               | 0                                                              | Shipped off-site for<br>treatment/disposal |                                                               |                                                        |
| 3.1.5                      | LA-W921                       | Activated or Inseparable<br>Lead                           | 0                                                             | 0.322                                                          | New covered                                | 0                                                             | 0                                                      |
|                            |                               |                                                            |                                                               | -0.322                                                         | Shipped off-site for<br>treatment/disposal |                                                               |                                                        |
| 3.1.5                      | LA-W922                       | Noncombustible Debris                                      | 20.624                                                        | 0                                                              | Administrative<br>adjustments              | 20.000                                                        | 0                                                      |
|                            |                               |                                                            |                                                               | 1.246                                                          | New covered                                |                                                               |                                                        |
|                            |                               |                                                            |                                                               | -1.870                                                         | Shipped off-site for<br>treatment/disposal |                                                               |                                                        |
| 3.1.6                      | LA-W913                       | Aqueous Wastes with<br>Heavy Metals                        | 0                                                             | 0                                                              |                                            | 0                                                             | 0                                                      |
| 3.1.6                      | LA-W914                       | Corrosive Solutions                                        | 0                                                             | 0                                                              |                                            | 0                                                             | 0                                                      |
| 3.1.6                      | LA-W915                       | Aqueous Cyanides,<br>Nitrates, Chromates, and<br>Arsenates | 0                                                             | 0                                                              |                                            | 0                                                             | 0                                                      |
| 3.1.7                      | LA-W916                       | Water-Reactive Wastes                                      | 0                                                             | 0                                                              |                                            | 0                                                             | 0                                                      |
| 3.1.8                      | LA-W917                       | Compressed Gases<br>Requiring Scrubbing                    | 0.624                                                         | 0                                                              | Administrative<br>adjustments              | 0.208                                                         | 0                                                      |
|                            |                               |                                                            |                                                               | -0.416                                                         | Shipped off-site for<br>treatment/disposal |                                                               |                                                        |
| 3.1.9                      | LA-W918                       | Compressed Gases<br>Requiring Oxidation                    | 0                                                             | 0                                                              |                                            | 0                                                             | 0                                                      |
| 3.1.10                     | LA-W920                       | Elemental Mercury                                          | 0                                                             | 0                                                              |                                            | 0                                                             | 0                                                      |
| 3.1.11                     | LA-W907                       | Halogenated Organic<br>Liquids                             | 0                                                             | 0                                                              |                                            | 0                                                             | 0                                                      |
| 3.1.11                     | LA-W908                       | Nonhalogenated Organic<br>Liquids                          | 0                                                             | 0                                                              |                                            | 0                                                             | 0                                                      |

Table D-1 (continued)

| CP <sup>1</sup><br>Section | MWIR <sup>1</sup><br>Waste ID | Treatability<br>Group/Category                             | FY 2023<br>Annual<br>Update<br>(m³) <sup>2</sup> | Proposed<br>Revision<br>35.0<br>(m³) <sup>2</sup> | Comments                                   | FY 2024<br>Annual<br>Update<br>(m³) <sup>2</sup> | Projection<br>FY 2025–<br>FY 2030<br>(m³) |
|----------------------------|-------------------------------|------------------------------------------------------------|--------------------------------------------------|---------------------------------------------------|--------------------------------------------|--------------------------------------------------|-------------------------------------------|
| 3.1.11                     | LA-W909                       | Bulk Oils                                                  | 0                                                | 0                                                 |                                            | 0                                                | 0                                         |
| 3.1.11                     | LA-W910                       | PCB Wastes with RCRA<br>Components                         | 0                                                | 0                                                 |                                            | 0                                                | 0                                         |
| 3.1.11                     | LA-W923                       | Liquid and Solid Oxidizers                                 | 0                                                | 0                                                 |                                            | 0                                                | 0                                         |
| 3.2                        | LA-W924                       | Lead Wastes – TBD                                          | 0                                                | 0                                                 |                                            | 0                                                | 0                                         |
| 3.2                        | LA-W925                       | Mercury Wastes – TBD                                       | 0                                                | 0                                                 |                                            | 0                                                | 0                                         |
| 3.2                        | LA-W926                       | Compressed Gases – TBD                                     | 0                                                | 0                                                 |                                            | 0                                                | 0                                         |
| 3.2                        | LA-W927                       | Biochemical Laboratory<br>Wastes                           | 0                                                | 0                                                 |                                            | 0                                                | 0                                         |
| 3.2                        | LA-W928                       | Dewatered Treatment<br>Sludge                              | 1.476                                            | -0.208                                            | Shipped off-site for<br>treatment/disposal | 1.268                                            | 0                                         |
| 3.2                        | LA-W932                       | Explosives                                                 | 0                                                | 0                                                 |                                            | 0                                                | 0                                         |
| 3.2                        | LA-W933                       | Labpacks                                                   | 0                                                | 0                                                 |                                            | 0                                                | 0                                         |
| 3.2                        | LA-W934                       | High Activity Waste <sup>3</sup>                           | 1.477                                            | 0                                                 | Administrative<br>adjustments              | 1.477                                            | 0                                         |
|                            |                               |                                                            |                                                  | 0                                                 | Shipped off-site for<br>treatment/disposal |                                                  |                                           |
| 3.3.1                      | LA-W930                       | Lead for Surface<br>Decontamination                        | 0                                                | 0                                                 |                                            | 0                                                | 0                                         |
| 3.3.2                      | LA-W929                       | Nonradioactive or Suspect<br>Waste Items to be<br>Surveyed | 0                                                | 0                                                 |                                            | 0                                                | 0                                         |
| 3.3.3                      | LA-W931                       | Lead Requiring Sorting                                     | 0                                                | 0                                                 |                                            | 0                                                | 0                                         |
| 3.3.4                      | LA-W935                       | 10–100 nCi/g Waste                                         | 23.233                                           | 7.386                                             | Administrative<br>adjustments              | 10.695                                           | 50                                        |
|                            |                               |                                                            |                                                  | 0.416                                             | New covered                                |                                                  |                                           |
|                            |                               |                                                            |                                                  | -20.340                                           | Shipped off-site for<br>treatment/disposal |                                                  |                                           |
| Totals                     |                               |                                                            | 168.274                                          | -13.786                                           |                                            | 154.488                                          | 50                                        |

<sup>1</sup> CP is Compliance Plan and MWIR is Mixed Waste Inventory Report.

<sup>2</sup> Values were rounded to three significant figures after the decimal point.

<sup>3</sup> High activity waste (FTWCs and cryotrap) is located at TA-54 Area G but is managed by Triad.

Table D-2 FY 2024 Triad MLLW Inventory Detailed Update by Treatability Group

| CP <sup>1</sup><br>Section | MWIR <sup>1</sup><br>Waste<br>ID | Treatability<br>Group/Category                             | FY 2023<br>Annual<br>Update<br>(m <sup>3</sup> ) <sup>2</sup> | Proposed<br>Revision<br>35.0<br>(m <sup>3</sup> ) | Comments | FY 2024<br>Annual<br>Update<br>(m <sup>3</sup> ) <sup>2</sup> | Projection<br>FY 2025–<br>FY 2030<br>(m <sup>3</sup> ) |
|----------------------------|----------------------------------|------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------|----------|---------------------------------------------------------------|--------------------------------------------------------|
| 3.1.1                      | LA-W901                          | IPA Wastes                                                 | 0                                                             | 0                                                 |          | 0                                                             | 0                                                      |
| 3.1.1                      | LA-W902                          | Scintillation Fluids                                       | 0                                                             | 0                                                 |          | 0                                                             | 0                                                      |
| 3.1.2                      | LA-W903                          | Lead Blankets                                              | 0                                                             | 0                                                 |          | 0                                                             | 0                                                      |
| 3.1.2                      | LA-W904                          | Soil with Heavy Metals                                     | 0                                                             | 0                                                 |          | 0                                                             | 0                                                      |
| 3.1.2                      | LA-W905                          | ER Soils                                                   | 0                                                             | 0                                                 |          | 0                                                             | 0                                                      |
| 3.1.3                      | LA-W906                          | Aqueous Organic Liquids                                    | 0                                                             | 0                                                 |          | 0                                                             | 0                                                      |
| 3.1.4                      | LA-W911                          | Organic-Contaminated<br>Combustible Solids                 | 0                                                             | 0                                                 |          | 0                                                             | 0                                                      |
| 3.1.4                      | LA-W919                          | Organic-Contaminated<br>Noncombustible Solids              | 0                                                             | 0                                                 |          | 0                                                             | 0                                                      |
| 3.1.5                      | LA-W912                          | Combustible Debris                                         | 0                                                             | 0                                                 |          | 0                                                             | 0                                                      |
| 3.1.5                      | LA-W921                          | Activated or Inseparable<br>Lead                           | 0                                                             | 0                                                 |          | 0                                                             | 0                                                      |
| 3.1.5                      | LA-W922                          | Noncombustible Debris                                      | 0                                                             | 0                                                 |          | 0                                                             | 0                                                      |
| 3.1.6                      | LA-W913                          | Aqueous Wastes with<br>Heavy Metals                        | 0                                                             | 0                                                 |          | 0                                                             | 0                                                      |
| 3.1.6                      | LA-W914                          | Corrosive Solutions                                        | 0                                                             | 0                                                 |          | 0                                                             | 0                                                      |
| 3.1.6                      | LA-W915                          | Aqueous Cyanides,<br>Nitrates, Chromates, and<br>Arsenates | 0                                                             | 0                                                 |          | 0                                                             | 0                                                      |
| 3.1.7                      | LA-W916                          | Water-Reactive Wastes                                      | 0                                                             | 0                                                 |          | 0                                                             | 0                                                      |
| 3.1.8                      | LA-W917                          | Compressed Gases<br>Requiring Scrubbing                    | 0                                                             | 0                                                 |          | 0                                                             | 0                                                      |
| 3.1.9                      | LA-W918                          | Compressed Gases<br>Requiring Oxidation                    | 0                                                             | 0                                                 |          | 0                                                             | 0                                                      |
| 3.1.10                     | LA-W920                          | Elemental Mercury                                          | 0                                                             | 0                                                 |          | 0                                                             | 0                                                      |
| 3.1.11                     | LA-W907                          | Halogenated Organic<br>Liquids                             | 0                                                             | 0                                                 |          | 0                                                             | 0                                                      |
| 3.1.11                     | LA-W908                          | Nonhalogenated Organic<br>Liquids                          | 0                                                             | 0                                                 |          | 0                                                             | 0                                                      |
| 3.1.11                     | LA-W909                          | Bulk Oils                                                  | 0                                                             | 0                                                 |          | 0                                                             | 0                                                      |
| 3.1.11                     | LA-W910                          | PCB Wastes with RCRA<br>Components                         | 0                                                             | 0                                                 |          | 0                                                             | 0                                                      |
| 3.1.11                     | LA-W923                          | Liquid and Solid<br>Oxidizers                              | 0                                                             | 0                                                 |          | 0                                                             | 0                                                      |
| 3.2                        | LA-W924                          | Lead Wastes – TBD                                          | 0                                                             | 0                                                 |          | 0                                                             | 0                                                      |
| 3.2                        | LA-W925                          | Mercury Wastes – TBD                                       | 0                                                             | 0                                                 |          | 0                                                             | 0                                                      |

Table D-2 (continued)

| CP <sup>1</sup><br>Section | MWIR <sup>1</sup><br>Waste<br>ID | Treatability<br>Group/Category                             | FY 2023<br>Annual<br>Update<br>(m³) <sup>2</sup> | Proposed<br>Revision<br>35.0<br>(m³) | Comments                                   | FY 2024<br>Annual<br>Update<br>(m³) <sup>2</sup> | Projection<br>FY 2025–<br>FY 2030<br>(m³) |
|----------------------------|----------------------------------|------------------------------------------------------------|--------------------------------------------------|--------------------------------------|--------------------------------------------|--------------------------------------------------|-------------------------------------------|
| 3.2                        | LA-W926                          | Compressed Gases – TBD                                     | 0                                                | 0                                    |                                            | 0                                                | 0                                         |
| 3.2                        | LA-W927                          | Biochemical Laboratory<br>Wastes                           | 0                                                | 0                                    |                                            | 0                                                | 0                                         |
| 3.2                        | LA-W928                          | Dewatered Treatment<br>Sludge                              | 0                                                | 0                                    |                                            | 0                                                | 0                                         |
| 3.2                        | LA-W932                          | Explosives                                                 | 0                                                | 0                                    |                                            | 0                                                | 0                                         |
| 3.2                        | LA-W933                          | Labpacks                                                   | 0                                                | 0                                    |                                            | 0                                                | 0                                         |
| 3.2                        | LA-W934                          | High Activity Waste                                        | 0                                                | 0                                    |                                            | 0                                                | 0                                         |
| 3.3.1                      | LA-W930                          | Lead for Surface<br>Decontamination                        | 0                                                | 0                                    |                                            | 0                                                | 0                                         |
| 3.3.2                      | LA-W929                          | Nonradioactive or Suspect<br>Waste Items to be<br>Surveyed | 0                                                | 0                                    |                                            | 0                                                | 0                                         |
| 3.3.3                      | LA-W931                          | Lead Requiring Sorting                                     | 0                                                | 0                                    |                                            | 0                                                | 0                                         |
| 3.3.4                      | LA-W935                          | 10–100 nCi/g Waste                                         | 2.081                                            | -0.208                               | Administrative<br>adjustments              | 0.738                                            | 50                                        |
|                            |                                  |                                                            |                                                  | 0.738                                | New covered                                |                                                  |                                           |
|                            |                                  |                                                            |                                                  | -1.873                               | Shipped off-site for<br>treatment/disposal |                                                  |                                           |
| Totals                     |                                  |                                                            | 2.081                                            | -1.343                               |                                            | 0.738                                            | 50                                        |

<sup>1</sup> CP is Compliance Plan; MWIR is Mixed Waste Inventory Report.

<sup>2</sup> Values were rounded to three significant figures after the decimal point.

## APPENDIX E CURRENT YEAR MTRU INVENTORY DETAIL

Table E-1 FY 2025 N3B MTRU Inventory by Treatability Group

| Treatability Group                        | FY 2024 Annual Update (m <sup>3</sup> ) <sup>1</sup> | Proposed Revision 36.0 (m <sup>3</sup> ) <sup>1</sup> | Comments <sup>2</sup>                    | FY 2025 Annual Update (m <sup>3</sup> ) <sup>1</sup> | Projection FY 2026 – FY 2031 (m <sup>3</sup> ) |
|-------------------------------------------|------------------------------------------------------|-------------------------------------------------------|------------------------------------------|------------------------------------------------------|------------------------------------------------|
| Cemented Sludge Waste                     | 374.955                                              | 20.532                                                | Administrative adjustments               | 1349.511                                             | 100                                            |
|                                           |                                                      | 959.658                                               | New covered                              |                                                      |                                                |
|                                           |                                                      | -5.634                                                | Removed from inventory (shipped to WIPP) |                                                      |                                                |
| Combustible Waste                         | 0                                                    | 0                                                     | Administrative adjustments               | 0                                                    | 0                                              |
|                                           |                                                      | 0                                                     | New covered                              |                                                      |                                                |
|                                           |                                                      | 0                                                     | Removed from inventory (shipped to WIPP) |                                                      |                                                |
| Combustible-Noncombustible Waste          | 429.559                                              | -0.664                                                | Administrative adjustments               | 420.015                                              | 0                                              |
|                                           |                                                      | 1.878                                                 | New covered                              |                                                      |                                                |
|                                           |                                                      | -10.758                                               | Removed from inventory (shipped to WIPP) |                                                      |                                                |
| Glass Waste                               | 0                                                    | 0                                                     | Administrative adjustments               | 0                                                    | 0                                              |
|                                           |                                                      | 0                                                     | New covered                              |                                                      |                                                |
|                                           |                                                      | 0                                                     | Removed from inventory (shipped to WIPP) |                                                      |                                                |
| Leaded Glovebox Waste                     | 0                                                    | 0                                                     | Administrative adjustments               | 0                                                    | 0                                              |
|                                           |                                                      | 0                                                     | New covered                              |                                                      |                                                |
|                                           |                                                      | 0                                                     | Removed from inventory (shipped to WIPP) |                                                      |                                                |
| Metallic Waste                            | 0.208                                                | 0                                                     | Administrative adjustments               | 0.208                                                | 0                                              |
|                                           |                                                      | 0                                                     | New covered                              |                                                      |                                                |
|                                           |                                                      | 0                                                     | Removed from inventory (shipped to WIPP) |                                                      |                                                |
| Noncombustible Waste                      | 0.946                                                | 0                                                     | Administrative adjustments               | 0.738                                                | 0                                              |
|                                           |                                                      | 0                                                     | New covered                              |                                                      |                                                |
|                                           |                                                      | -0.208                                                | Removed from inventory (shipped to WIPP) |                                                      |                                                |
| Solidified Inorganic and Organic Waste    | 0.946                                                | 0                                                     | Administrative adjustments               | 0.946                                                | 0                                              |
|                                           |                                                      | 0                                                     | New covered                              |                                                      |                                                |
|                                           |                                                      | 0                                                     | Removed from inventory (shipped to WIPP) |                                                      |                                                |
| Solidified Inorganic Noncombustible Waste | 83.488                                               | 6.256                                                 | Administrative adjustments               | 89.744                                               | 0                                              |
|                                           |                                                      | 0                                                     | New covered                              |                                                      |                                                |
|                                           |                                                      | 0                                                     | Removed from inventory (shipped to WIPP) |                                                      |                                                |
| Solidified Inorganic Particulate Waste    | 88.494                                               | -1.576                                                | Administrative adjustments               | 86.918                                               | 0                                              |
|                                           |                                                      | 0                                                     | New covered                              |                                                      |                                                |
|                                           |                                                      | 0                                                     | Removed from inventory (shipped to WIPP) |                                                      |                                                |
| <b>Totals</b>                             | <b>978.596</b>                                       | <b>969.484</b>                                        |                                          | <b>1948.080</b>                                      | <b>100</b>                                     |

<sup>1</sup> Values were rounded to three significant figures after the decimal point.

<sup>2</sup> Shipping details are found in Appendix F and administrative adjustments are found in Appendix G.

Table E-2 FY 2025 Triad MTRU Inventory by Treatability Group

| Treatability Group                        | FY 2024 Annual Update (m <sup>3</sup> ) <sup>1</sup> | Proposed Revision 36.0 (m <sup>3</sup> ) <sup>1</sup> | Comments <sup>2</sup>      | FY 2025 Annual Update (m <sup>3</sup> ) <sup>1</sup> | Projection FY 2026–FY 2031 (m <sup>3</sup> ) |
|-------------------------------------------|------------------------------------------------------|-------------------------------------------------------|----------------------------|------------------------------------------------------|----------------------------------------------|
| Cemented Sludge Waste                     | 0                                                    | 0                                                     | Administrative adjustments | 0                                                    | 0                                            |
|                                           |                                                      | 0                                                     | New covered                |                                                      |                                              |
|                                           |                                                      | 0                                                     | Shipped to WIPP            |                                                      |                                              |
| Combustible Waste                         | 0                                                    | 0                                                     | Administrative adjustments | 0                                                    | 0                                            |
|                                           |                                                      | 0                                                     | New covered                |                                                      |                                              |
|                                           |                                                      | 0                                                     | Shipped to WIPP            |                                                      |                                              |
| Combustible-Noncombustible Waste          | 141.580                                              | -11.484                                               | Administrative adjustments | 160.930                                              | 100                                          |
|                                           |                                                      | 43.314                                                | New covered                |                                                      |                                              |
|                                           |                                                      | -12.480                                               | Shipped to WIPP            |                                                      |                                              |
| Glass Waste                               | 0                                                    | 0                                                     | Administrative adjustments | 0                                                    | 0                                            |
|                                           |                                                      | 0                                                     | New covered                |                                                      |                                              |
|                                           |                                                      | 0                                                     | Shipped to WIPP            |                                                      |                                              |
| Leaded Glovebox Waste                     | 0                                                    | 0                                                     | Administrative adjustments | 0                                                    | 0                                            |
|                                           |                                                      | 0                                                     | New covered                |                                                      |                                              |
|                                           |                                                      | 0                                                     | Shipped to WIPP            |                                                      |                                              |
| Metallic Waste                            | 0                                                    | 0                                                     | Administrative adjustments | 0                                                    | 0                                            |
|                                           |                                                      | 0                                                     | New covered                |                                                      |                                              |
|                                           |                                                      | 0                                                     | Shipped to WIPP            |                                                      |                                              |
| Noncombustible Waste                      | 0                                                    | -2.080                                                | Administrative adjustments | 0                                                    | 0                                            |
|                                           |                                                      | 2.080                                                 | New covered                |                                                      |                                              |
|                                           |                                                      | 0                                                     | Shipped to WIPP            |                                                      |                                              |
| Solidified Inorganic and Organic Waste    | 0                                                    | 0                                                     | Administrative adjustments | 0                                                    | 0                                            |
|                                           |                                                      | 0                                                     | New covered                |                                                      |                                              |
|                                           |                                                      | 0                                                     | Shipped to WIPP            |                                                      |                                              |
| Solidified Inorganic Noncombustible Waste | 0                                                    | 0                                                     | Administrative adjustments | 0                                                    | 0                                            |
|                                           |                                                      | 0                                                     | New covered                |                                                      |                                              |
|                                           |                                                      | 0                                                     | Shipped to WIPP            |                                                      |                                              |
| Solidified Inorganic Particulate Waste    | 0                                                    | 0                                                     | Administrative adjustments | 0                                                    | 0                                            |
|                                           |                                                      | 0                                                     | New covered                |                                                      |                                              |
|                                           |                                                      | 0                                                     | Shipped to WIPP            |                                                      |                                              |
| <b>Totals</b>                             | <b>141.580</b>                                       | <b>19.350</b>                                         |                            | <b>160.930</b>                                       | <b>100</b>                                   |

<sup>1</sup> Values were rounded to three significant figures after the decimal point.

<sup>2</sup> Shipping details are found in Appendix F and administrative adjustments are found in Appendix G.

Table E-3 FY 2025 3706 Aboveground EM Legacy MTRU Inventory by Treatability Group

| Treatability Group                        | FY 2024 Annual Update (m <sup>3</sup> ) <sup>1</sup> | Proposed Revision 36.0 (m <sup>3</sup> ) <sup>1</sup> | Comments <sup>2</sup>                    | FY 2025 Annual Update (m <sup>3</sup> ) <sup>1</sup> | Projection FY 2026–FY 2031 (m <sup>3</sup> ) |
|-------------------------------------------|------------------------------------------------------|-------------------------------------------------------|------------------------------------------|------------------------------------------------------|----------------------------------------------|
| Cemented Sludge Waste                     | 42.132                                               | 0                                                     | Administrative adjustments               | 42.132                                               | 0                                            |
|                                           |                                                      | 0                                                     | New covered                              |                                                      |                                              |
|                                           |                                                      | 0                                                     | Removed from inventory (shipped to WIPP) |                                                      |                                              |
| Combustible Waste                         | 0                                                    | 0                                                     | Administrative adjustments               | 0                                                    | 0                                            |
|                                           |                                                      | 0                                                     | New covered                              |                                                      |                                              |
|                                           |                                                      | 0                                                     | Removed from inventory (shipped to WIPP) |                                                      |                                              |
| Combustible-Noncombustible Waste          | 111.221                                              | -0.228                                                | Administrative adjustments               | 104.407                                              | 0                                            |
|                                           |                                                      | 0.208                                                 | New covered                              |                                                      |                                              |
|                                           |                                                      | -6.794                                                | Removed from inventory (shipped to WIPP) |                                                      |                                              |
| Glass Waste                               | 0                                                    | 0                                                     | Administrative adjustments               | 0                                                    | 0                                            |
|                                           |                                                      | 0                                                     | New covered                              |                                                      |                                              |
|                                           |                                                      | 0                                                     | Removed from inventory (shipped to WIPP) |                                                      |                                              |
| Leaded Glovebox Waste                     | 0                                                    | 0                                                     | Administrative adjustments               | 0                                                    | 0                                            |
|                                           |                                                      | 0                                                     | New covered                              |                                                      |                                              |
|                                           |                                                      | 0                                                     | Removed from inventory (shipped to WIPP) |                                                      |                                              |
| Metallic Waste                            | 0                                                    | 0                                                     | Administrative adjustments               | 0                                                    | 0                                            |
|                                           |                                                      | 0                                                     | New covered                              |                                                      |                                              |
|                                           |                                                      | 0                                                     | Removed from inventory (shipped to WIPP) |                                                      |                                              |
| Noncombustible Waste                      | 0.530                                                | 0                                                     | Administrative adjustments               | 0.530                                                | 0                                            |
|                                           |                                                      | 0                                                     | New covered                              |                                                      |                                              |
|                                           |                                                      | 0                                                     | Removed from inventory (shipped to WIPP) |                                                      |                                              |
| Solidified Inorganic and Organic Waste    | 0.416                                                | 0                                                     | Administrative adjustments               | 0.416                                                | 0                                            |
|                                           |                                                      | 0                                                     | New covered                              |                                                      |                                              |
|                                           |                                                      | 0                                                     | Removed from inventory (shipped to WIPP) |                                                      |                                              |
| Solidified Inorganic Noncombustible Waste | 10.942                                               | 0                                                     | Administrative adjustments               | 10.942                                               | 0                                            |
|                                           |                                                      | 0                                                     | New covered                              |                                                      |                                              |
|                                           |                                                      | 0                                                     | Removed from inventory (shipped to WIPP) |                                                      |                                              |
| Solidified Inorganic Particulate Waste    | 82.852                                               | -1.670                                                | Administrative adjustments               | 81.182                                               | 0                                            |
|                                           |                                                      | 0                                                     | New covered                              |                                                      |                                              |
|                                           |                                                      | 0                                                     | Removed from inventory (shipped to WIPP) |                                                      |                                              |
| <b>Totals</b>                             | <b>248.093</b>                                       | <b>-8.484</b>                                         |                                          | <b>239.609</b>                                       | <b>0</b>                                     |

<sup>1</sup> Values were rounded to three significant figures after the decimal point.

<sup>2</sup> Shipping details are found in Appendix F and administrative adjustments are found in Appendix G.

## APPENDIX F CURRENT YEAR MTRU WASTE SHIPMENTS TO WIPP

Table F-1 FY 2025 MTRU Shipments to WIPP

| Quarter     | Treatability Group                        | Inventory Volume Shipped (m <sup>3</sup> ) | New Covered Volume (m <sup>3</sup> ) | Total Volume Removed from STP Inventory (m <sup>3</sup> ) | FY 2025 Total Volume Shipped (m <sup>3</sup> ) |
|-------------|-------------------------------------------|--------------------------------------------|--------------------------------------|-----------------------------------------------------------|------------------------------------------------|
| Q1          | Cemented Sludge Waste                     | 0                                          | 0                                    | 0                                                         | 0                                              |
|             | Combustible-Noncombustible Waste          | 9.498                                      | 0                                    | 9.498                                                     | 9.520                                          |
|             | Solidified Inorganic and Organic Waste    | 0                                          | 0                                    | 0                                                         | 0                                              |
|             | Solidified Inorganic Noncombustible Waste | 0                                          | 0                                    | 0                                                         | 0                                              |
| Q2          | Cemented Sludge Waste                     | 0                                          | 0                                    | 0                                                         | 0                                              |
|             | Combustible-Noncombustible Waste          | 2.288                                      | 0                                    | 2.288                                                     | 2.288                                          |
|             | Solidified Inorganic and Organic Waste    | 0                                          | 0                                    | 0                                                         | 0                                              |
|             | Solidified Inorganic Noncombustible Waste | 0                                          | 0                                    | 0                                                         | 0                                              |
| Q3          | Cemented Sludge Waste                     | 0                                          | 0                                    | 0                                                         | 0                                              |
|             | Combustible-Noncombustible Waste          | 7.078                                      | 0                                    | 7.078                                                     | 7.100                                          |
|             | Noncombustible Waste                      | 0.208                                      | 0                                    | 0.208                                                     | 0.208                                          |
|             | Solidified Inorganic Noncombustible Waste | 0                                          | 0                                    | 0                                                         | 0                                              |
| Q4          | Cemented Sludge Waste                     | 0                                          | 5.634                                | 5.634                                                     | 5.700                                          |
|             | Combustible-Noncombustible Waste          | 4.374                                      | 0                                    | 4.374                                                     | 4.396                                          |
|             | Noncombustible Waste                      | 0                                          | 0                                    | 0                                                         | 0                                              |
|             | Solidified Inorganic Noncombustible Waste | 0                                          | 0                                    | 0                                                         | 0                                              |
| Grand Total |                                           | 23.446                                     | 5.634                                | 29.080                                                    | 29.212                                         |

Table F-2 FY 2014 MTRU Shipments to WCS

| FY 2014 Quarter | Treatability Group                        | Existing FY 2014 Inventory Volume (m <sup>3</sup> ) <sup>1</sup> | New Covered Volume (m <sup>3</sup> ) | Inventory on Hold in FY 2024 (m <sup>3</sup> ) | Volume Removed from Inventory in FY 2025 (m <sup>3</sup> ) | Inventory Remaining on Hold in FY 2025 (m <sup>3</sup> ) |
|-----------------|-------------------------------------------|------------------------------------------------------------------|--------------------------------------|------------------------------------------------|------------------------------------------------------------|----------------------------------------------------------|
| Q3 <sup>2</sup> | Cemented Sludge Waste                     | 22.256                                                           | 0                                    | 10.400                                         | 0                                                          | 10.400                                                   |
|                 | Combustible-Noncombustible Waste          | 99.954                                                           | 0                                    | 6.240                                          | 0                                                          | 6.240                                                    |
|                 | Noncombustible Waste                      | 0.832                                                            | 0                                    | 0.208                                          | 0                                                          | 0.208                                                    |
|                 | Solidified Inorganic Noncombustible Waste | 9.380                                                            | 0                                    | 4.274                                          | 0                                                          | 4.274                                                    |
|                 | Solidified Inorganic Particulate Waste    | 23.296                                                           | 0                                    | 23.296                                         | 0                                                          | 23.296                                                   |
| Grand Total     |                                           | 155.718                                                          | 0                                    | 44.418                                         | 0                                                          | 44.418                                                   |

<sup>1</sup> Volumes shipped in FY 2014 but not removed from the STP inventory.

<sup>2</sup> All shipment dates of MTRU containers to WCS were in FY 2014 Q3.

Table F-3 FY 2014 MTRU Shipments to AMWTP (INL)

| FY 2014 Quarter    | Treatability Group                     | Existing FY 2014 Inventory Volume (m <sup>3</sup> ) <sup>1</sup> | New Covered Volume (m <sup>3</sup> ) | Total Inventory on Hold (m <sup>3</sup> ) | Total Volume Shipped (m <sup>3</sup> ) | Total Disposed in FY 2025 (m <sup>3</sup> ) |
|--------------------|----------------------------------------|------------------------------------------------------------------|--------------------------------------|-------------------------------------------|----------------------------------------|---------------------------------------------|
| Q1                 | Combustible-Noncombustible Waste Total | 0                                                                | 0                                    | 0                                         | 0                                      | 0                                           |
| Q2                 | Combustible-Noncombustible Waste Total | 0                                                                | 0                                    | 0                                         | 0                                      | 0                                           |
| Q3                 | Combustible-Noncombustible Waste Total | 0                                                                | 0                                    | 0                                         | 0                                      | 0                                           |
| Q4                 | Combustible-Noncombustible Waste Total | 0                                                                | 0                                    | 0                                         | 0                                      | 0                                           |
| <b>Grand Total</b> |                                        | <b>0</b>                                                         | <b>0</b>                             | <b>0</b>                                  | <b>0</b>                               | <b>0</b>                                    |

<sup>1</sup> Volumes shipped in FY 2014 but not removed from the STP inventory.

Table F-4 FY 2014 On-Hold MTRU Shipments to WCS and then to WIPP<sup>1</sup>

| Treatability Group                        | FY 2014 on Hold Shipped to WCS in FY 2014 Q3 (m <sup>3</sup> ) | FY 2014 on Hold New Covered at WCS from FY 2015–FY 2025 (m <sup>3</sup> ) | FY 2014 on Hold Remaining at WCS in FY 2024 (m <sup>3</sup> ) | FY 2014 on Hold Removed from Inventory (Shipped from WCS to WIPP in FY 2025 by Quarter) (m <sup>3</sup> ) |          | FY 2014 on Hold Remaining at WCS in FY 2025 (m <sup>3</sup> ) |
|-------------------------------------------|----------------------------------------------------------------|---------------------------------------------------------------------------|---------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|----------|---------------------------------------------------------------|
| Cemented Sludge Waste                     | 22.256                                                         | 0                                                                         | 10.400                                                        | Q1                                                                                                        | 0        | 10.400                                                        |
|                                           |                                                                |                                                                           |                                                               | Q2                                                                                                        | 0        |                                                               |
|                                           |                                                                |                                                                           |                                                               | Q3                                                                                                        | 0        |                                                               |
|                                           |                                                                |                                                                           |                                                               | Q4                                                                                                        | 0        |                                                               |
| Combustible-Noncombustible Waste          | 99.954                                                         | 0                                                                         | 6.240                                                         | Q1                                                                                                        | 0        | 6.240                                                         |
|                                           |                                                                |                                                                           |                                                               | Q2                                                                                                        | 0        |                                                               |
|                                           |                                                                |                                                                           |                                                               | Q3                                                                                                        | 0        |                                                               |
|                                           |                                                                |                                                                           |                                                               | Q4                                                                                                        | 0        |                                                               |
| Noncombustible Waste                      | 0.832                                                          | 0                                                                         | 0.208                                                         | Q1                                                                                                        | 0        | 0.208                                                         |
|                                           |                                                                |                                                                           |                                                               | Q2                                                                                                        | 0        |                                                               |
|                                           |                                                                |                                                                           |                                                               | Q3                                                                                                        | 0        |                                                               |
|                                           |                                                                |                                                                           |                                                               | Q4                                                                                                        | 0        |                                                               |
| Solidified Inorganic Noncombustible Waste | 9.380                                                          | 0                                                                         | 4.274                                                         | Q1                                                                                                        | 0        | 4.274                                                         |
|                                           |                                                                |                                                                           |                                                               | Q2                                                                                                        | 0        |                                                               |
|                                           |                                                                |                                                                           |                                                               | Q3                                                                                                        | 0        |                                                               |
|                                           |                                                                |                                                                           |                                                               | Q4                                                                                                        | 0        |                                                               |
| Solidified Inorganic Particulate Waste    | 23.296                                                         | 0                                                                         | 23.296                                                        | Q1                                                                                                        | 0        | 23.296                                                        |
|                                           |                                                                |                                                                           |                                                               | Q2                                                                                                        | 0        |                                                               |
|                                           |                                                                |                                                                           |                                                               | Q3                                                                                                        | 0        |                                                               |
|                                           |                                                                |                                                                           |                                                               | Q4                                                                                                        | 0        |                                                               |
| <b>Grand Total</b>                        | <b>155.718</b>                                                 | <b>0</b>                                                                  | <b>44.418</b>                                                 |                                                                                                           | <b>0</b> | <b>44.418</b>                                                 |

<sup>1</sup> Volumes shipped in FY 2014 but not removed from the STP inventory.

## APPENDIX G CURRENT YEAR MTRU INVENTORY ADMINISTRATIVE ADJUSTMENTS

Table G-1 FY 2025 N3B MTRU Inventory Administrative Adjustments

| Treatability Group                                          | Administrative Adjustment                                       | Volume (m <sup>3</sup> ) |
|-------------------------------------------------------------|-----------------------------------------------------------------|--------------------------|
| Cemented Sludge Waste                                       | Container Overpacked                                            | 19.696                   |
|                                                             | Recharacterized from Solidified Inorganic Noncombustible Waste  | 0.322                    |
|                                                             | Volume Change from 0.208 m <sup>3</sup> to 0.416 m <sup>3</sup> | 0.208                    |
|                                                             | Volume Change from 0.314 m <sup>3</sup> to 0.416 m <sup>3</sup> | 0.306                    |
| <b>Cemented Sludge Waste Adjustment</b>                     |                                                                 | <b>20.532</b>            |
| Combustible Waste                                           |                                                                 | 0                        |
| <b>Combustible Waste Adjustment</b>                         |                                                                 | <b>0</b>                 |
| Combustible-Noncombustible Waste                            | Container Denested                                              | -0.456                   |
|                                                             | Recharacterized into Solidified Inorganic Noncombustible Waste  | -0.208                   |
| <b>Combustible-Noncombustible Waste Adjustment</b>          |                                                                 | <b>-0.664</b>            |
| Glass Waste                                                 |                                                                 | 0                        |
| <b>Glass Waste Adjustment</b>                               |                                                                 | <b>0</b>                 |
| Leaded Glovebox Waste                                       |                                                                 | 0                        |
| <b>Leaded Glovebox Waste Adjustment</b>                     |                                                                 | <b>0</b>                 |
| Metallic Waste                                              |                                                                 | 0                        |
| <b>Metallic Waste Adjustment</b>                            |                                                                 | <b>0</b>                 |
| Noncombustible Waste                                        |                                                                 | 0                        |
| <b>Noncombustible Waste Adjustment</b>                      |                                                                 | <b>0</b>                 |
| Solidified Inorganic and Organic Waste                      |                                                                 | 0                        |
| <b>Solidified Inorganic and Organic Waste Adjustment</b>    |                                                                 | <b>0</b>                 |
| Solidified Inorganic Noncombustible Waste                   | Container Denested                                              | -0.114                   |
|                                                             | Container Overpacked                                            | 1.556                    |
|                                                             | Container Repackaged                                            | 6.770                    |
|                                                             | EPA codes removed during reclassification                       | -2.254                   |
|                                                             | Recharacterized from Combustible-Noncombustible Waste           | 0.208                    |
|                                                             | Recharacterized into Cemented Sludge Waste                      | -0.322                   |
|                                                             | Volume change from 0.208 m <sup>3</sup> to 0.416 m <sup>3</sup> | 0.208                    |
|                                                             | Volume Change from 0.314 m <sup>3</sup> to 0.416 m <sup>3</sup> | 0.204                    |
| <b>Solidified Inorganic Noncombustible Waste Adjustment</b> |                                                                 | <b>6.256</b>             |
| Solidified Inorganic Particulate Waste                      | Container Denested                                              | -1.576                   |
| <b>Solidified Inorganic Particulate Waste Adjustment</b>    |                                                                 | <b>-1.576</b>            |
| <b>Total N3B Adjustments</b>                                |                                                                 | <b>24.548</b>            |

Table G-2 FY 2025 Triad MTRU Inventory Administrative Adjustments

| Treatability Group                                   | Administrative Adjustment                             | Volume (m <sup>3</sup> ) |
|------------------------------------------------------|-------------------------------------------------------|--------------------------|
| Cemented Sludge Waste                                |                                                       | 0                        |
| Cemented Sludge Waste Adjustment                     |                                                       | 0                        |
| Combustible Waste                                    |                                                       | 0                        |
| Total Combustible Waste Adjustment                   |                                                       | 0                        |
| Combustible-Noncombustible Waste                     | Recharacterized from Noncombustible Waste             | 2.080                    |
|                                                      | EPA codes removed during reclassification             | -13.564                  |
|                                                      |                                                       |                          |
| Total Combustible-Noncombustible Waste Adjustment    |                                                       | -11.484                  |
| Glass Waste                                          |                                                       | 0                        |
| Glass Waste Adjustment                               |                                                       | 0                        |
| Leaded Glovebox Waste                                |                                                       | 0                        |
| Leaded Glovebox Waste Adjustment                     |                                                       | 0                        |
| Metallic Waste                                       |                                                       | 0                        |
| Metallic Waste Adjustment                            |                                                       | 0                        |
| Noncombustible Waste                                 | Recharacterized into Combustible-Noncombustible Waste | -2.080                   |
| Noncombustible Waste Adjustment                      |                                                       | -2.080                   |
| Solidified Inorganic and Organic Waste               |                                                       | 0                        |
| Solidified Inorganic and Organic Waste Adjustment    |                                                       | 0                        |
| Solidified Inorganic Noncombustible Waste            |                                                       | 0                        |
| Solidified Inorganic Noncombustible Waste Adjustment |                                                       | 0                        |
| Solidified Inorganic Particulate Waste               |                                                       | 0                        |
| Solidified Inorganic Particulate Waste Adjustment    |                                                       | 0                        |
| Total Triad Adjustments                              |                                                       | -13.564                  |

Table G-3 FY 2025 3706 MTRU Inventory Administrative Adjustments

| Treatability Group                                           | Administrative Adjustments | Volume (m <sup>3</sup> ) |
|--------------------------------------------------------------|----------------------------|--------------------------|
| Cemented Sludge Waste                                        | Container Denested         | -0.228                   |
| <b>Cemented Sludge Waste Adjustment</b>                      |                            | <b>-0.228</b>            |
| Combustible Waste                                            |                            | 0                        |
| <b>Combustible Waste Adjustment</b>                          |                            | <b>0</b>                 |
| Combustible-Noncombustible Waste                             |                            | 0                        |
| <b>Combustible-Noncombustible Waste Adjustment</b>           |                            | <b>0</b>                 |
| Glass Waste                                                  |                            | 0                        |
| <b>Glass Waste Adjustment</b>                                |                            | <b>0</b>                 |
| Leaded Glovebox Waste                                        |                            | 0                        |
| <b>Leaded Glovebox Waste Adjustment</b>                      |                            | <b>0</b>                 |
| Metallic Waste                                               |                            | 0                        |
| <b>Metallic Waste Adjustment</b>                             |                            | <b>0</b>                 |
| Noncombustible Waste                                         |                            | 0                        |
| <b>Noncombustible Waste Adjustment</b>                       |                            | <b>0</b>                 |
| Solidified Inorganic and Organic Waste                       |                            | 0                        |
| <b>Solidified Inorganic and Organic Waste Adjustment</b>     |                            | <b>0</b>                 |
| Solidified Inorganic Noncombustible Waste                    |                            | 0                        |
| <b>Solidified Inorganic Noncombustible Waste Adjustment</b>  |                            | <b>0</b>                 |
| Solidified Inorganic Particulate Waste                       | Container Denested         | -1.670                   |
| <b>Solidified Inorganic Particulate Waste Net Adjustment</b> |                            | <b>-1.670</b>            |
| <b>Total 3706 Adjustments</b>                                |                            | <b>-1.898</b>            |

## APPENDIX H MLLW TREATMENT FACILITIES

Table H-1 Commercial Facilities Contacted for Waste Treatment Capabilities

| Commercial Facility                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Location                          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|
| <p>Perma-Fix<br/>(including Material &amp; Energy Corporation in Tennessee; Diversified Scientific Services, Inc. in Tennessee; and Perma-Fix North West in Washington; and Perma-Fix Florida in Gainesville, Florida)</p> <p>Perma-Fix has permitted treatment facilities for the treatment of low-level radioactive and low-level mixed waste. The facilities can perform to include thermal treatment, compaction, macroencapsulation, neutralization, and stabilization. All are licensed within their respective State of location under the Nuclear Regulatory Commission regulations and permitted under the RCRA regulations</p>                                             | Florida, Washington and Tennessee |
| <p>Waste Control Specialists (WCS)</p> <p>WCS, located in Andrews, Texas, is a permitted treatment facility for the treatment and disposal of LLW and MLLW. The site has regulatory authorization for industrial solid waste and hazardous waste storage, processing, and land disposal under RCRA permit # HW-50358 granted by the state of Texas. EPA has authorized the site for treatment, storage, and land disposal of Toxic Substances Control Act (TSCA) wastes (TXD988088464). The facility can process waste that requires compaction, microencapsulation, macroencapsulation, neutralization, deactivation, chemical oxidation, chemical reduction and stabilization.</p> | Texas                             |
| <p>Energy Solutions of Utah<br/>(including Bear Creek Operations in Tennessee)</p> <p>Energy Solutions, located in Clive, Utah, is a permitted treatment facility for the treatment and disposal of LLW and MLLW. The site houses both a low-level radioactive waste treatment facility and a low-level mixed waste treatment facility, which are licensed under state of Utah Department of Environmental Quality, License Number UT2300249 and by the EPA hazardous waste permit number UT0982598898.</p>                                                                                                                                                                          | Utah                              |
| NSSI Houston- Nuclear Sources & Services, Inc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Texas                             |

## APPENDIX I CORRESPONDENCE

Table I-1 FY 2025 Expedited Shipment Letters

| Letter Date | Description | Letter Number | Revision Reference |
|-------------|-------------|---------------|--------------------|
| —*          | —           | —             | —                  |
| —           | —           | —             | —                  |
| —           | —           | —             | —                  |
| —           | —           | —             | —                  |
| —           | —           | —             | —                  |

\* — = Not applicable

Note: In Table 1-2 and I-3, insert in the first column the date that is on the NMED correspondence.

Table I-2 FY 2025 Correspondence from DOE/NNSA/Triad

| Letter Date | Description                                                                                                                                                                               | Letter Number | Revision Reference |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|--------------------|
| 10/31/2024  | Notice of Completion of Off-Site Waste Shipment for Final Disposal, Activity 4.0 Compliance Plan, Site Treatment Plan, Federal Facility Compliance Order, Los Alamos National Laboratory  | EPC-DO-24-301 | 36                 |
| 11/20/2024  | Notice of Completion of Off-Site Waste Shipment for Final Disposal, Activity 4.0 Compliance Plan, Site Treatment Plan, Federal Facility Compliance Order, Los Alamos National Laboratory  | EPC-DO-24-329 | 36                 |
| 12/16/2024  | Notice of Completion of Off-Site Waste Shipment for Final Disposal, Activity 4.0 Compliance Plan, Site Treatment Plan, Federal Facility Compliance Order, Los Alamos National Laboratory  | EPC-DO-24-345 | 36                 |
| 1/6/2025    | Notice of Completion of Off-Site Waste Shipment for Final Disposal, Activity 4.0 Compliance Plan, Site Treatment Plan, Federal Facility Compliance Order, Los Alamos National Laboratory  | EPC-DO-24-369 | 36                 |
| 2/26/2025   | Notice of Completion of Off-Site Waste Shipment for Final Disposal, Activity 3.0, Compliance Plan, Site Treatment Plan, Federal Facility Compliance Order, Los Alamos National Laboratory | EPC-DO-25-064 | 36                 |
| 4/7/2025    | Notice of Completion of Off-Site Waste Shipment for Final Disposal, Activity 4.0, Compliance Plan, Site Treatment Plan, Federal Facility Compliance Order, Los Alamos National Laboratory | EPC-DO-25-107 | 36                 |
| 4/21/2025   | Notice of Completion of Off-Site Waste Shipment for Final Disposal, Activity 4.0, Compliance Plan, Site Treatment Plan, Federal Facility Compliance Order, Los Alamos National Laboratory | EPC-DO-25-116 | 36                 |
| 4/24/2025   | Notice of Completion of Off-Site Waste Shipment for Final Disposal, Activity 4.0, Compliance Plan, Site Treatment Plan, Federal Facility Compliance Order, Los Alamos National Laboratory | EPC-DO-25-129 | 36                 |

Table I-2 (continued)

| Letter Date | Description                                                                                                                                                                               | Letter Number | Revision Reference |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|--------------------|
| 6/18/2025   | Notice of Completion of Off-Site Waste Shipment for Final Disposal, Activity 4.0, Compliance Plan, Site Treatment Plan, Federal Facility Compliance Order, Los Alamos National Laboratory | EPC-DO-25-152 | 36                 |
| 7/1/2025    | Notice of Completion of Off-Site Waste Shipment for Final Disposal, Activity 4.0, Compliance Plan, Site Treatment Plan, Federal Facility Compliance Order, Los Alamos National Laboratory | EPC-DO-25-171 | 36                 |
| 8/5/2025    | Notice of Completion of Off-Site Waste Shipment for Final Disposal, Activity 4.0, Compliance Plan, Site Treatment Plan, Federal Facility Compliance Order, Los Alamos National Laboratory | EPC-DO-25-209 | 36                 |
| 8/5/2025    | Notice of Completion of Off-Site Waste Shipment for Final Disposal, Activity 4.0, Compliance Plan, Site Treatment Plan, Federal Facility Compliance Order, Los Alamos National Laboratory | EPC-DO-25-214 | 36                 |
| 9/17/2025   | Notice of Completion of Off-Site Waste Shipment for Final Disposal, Activity 4.0, Compliance Plan, Site Treatment Plan, Federal Facility Compliance Order, Los Alamos National Laboratory | EPC-DO-25-246 | 36                 |
| 10/13/2025  | Notice of Completion of Off-Site Waste Shipment for Final Disposal, Activity 4.0, Compliance Plan, Site Treatment Plan, Federal Facility Compliance Order, Los Alamos National Laboratory | EPC-DO-25-276 | 36                 |

Table I-3 FY 2025 Correspondence from DOE EM-LA/N3B

| Letter Date | Description                                                                                                                                                                                                                                                                       | Letter/Document Number | Revision Reference |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|--------------------|
| 10/3/2024   | Notice of Completion of Off-Site Waste Shipment for Final Disposal, Activity 4.0 Compliance Plan, Site Treatment Plan, Federal Facility Compliance Order, Los Alamos National Laboratory (Shipment August 1, 2024, LA240029, August 15, 2024 LA240031)                            | N3B-2024-0333          | 36                 |
| 10/25/2024  | Notice of Completion of Off-Site Waste Shipment for Final Disposal, Activity 4.0 Compliance Plan, Site Treatment Plan, Federal Facility Compliance Order, Los Alamos National Laboratory (Shipment August 22, 2024, LA240032)                                                     | N3B-2024-0358          | 36                 |
| 12/5/2024   | Notice of Completion of Off-Site Waste Shipment for Final Disposal, Activity 4.0 Compliance Plan, Site Treatment Plan, Federal Facility Compliance Order, Los Alamos National Laboratory (Shipment September 30, 2024, LA240037 & LA240038)                                       | N3B-2024-0411          | 36                 |
| 12/5/2024   | Notice of Completion of Off-Site Waste Shipments for the Fourth Quarter of Fiscal Year 2024 for Los Alamos National Laboratory as Required by the Federal Facilities Compliance Order Site Treatment Plan Compliance Plan Section 4.0                                             | N3B-2024-0416          | 36                 |
| 12/23/2024  | Notice of Completion of Activity 4.0 Waste Shipment Offsite for Treatment or Recycling at a Noncommercial Facility -Los Alamos National Laboratory Federal Facility Compliance Order Site Treatment Plan Compliance Milestones and Activities (LANL)(FFCO)(STP) (Closeout Letter) | N3B-2024-0469          | 36                 |

Table I-3 (continued)

| Letter Date | Description                                                                                                                                                                                                                                                                      | Letter/Document Number | Revision Reference |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|--------------------|
| 1/30/2025   | Notice of Completion of Off-Site Waste Shipment for Final Disposal, Activity 4.0 Compliance Plan, Site Treatment Plan, Federal Facility Compliance Order, Los Alamos National Laboratory (Shipment November 21, 2024, LA240043)                                                  | N3B-2025-0001          | 36                 |
| 2/18/2025   | Notice of Completion of Off-Site Waste Shipment for Final Disposal, Activity 4.0 Compliance Plan, Site Treatment Plan, Federal Facility Compliance Order, Los Alamos National Laboratory (Shipment December 17, 2024, LA240048)                                                  | N3B-2025-0008          | 36                 |
| 2/26/2025   | Notification of the Department of Energy Environmental Management Los Alamos Field Office Project Manager Change and Confirmation of Responsibilities in Accordance with the 1995 Federal Facility Compliance Order (Duran to Harcek)                                            | N3B-2025-0067          | 36                 |
| 2/26/2025   | Notice of Completion of Off-Site Waste Shipments for the First Quarter of Fiscal Year 2025 for Los Alamos National Laboratory as Required by the Federal Facilities Compliance Order Site Treatment Plan Compliance Plan Section 4.0                                             | N3B-2025-0022          | 36                 |
| 3/31/2025   | Site Treatment Plan Fiscal Year 2024 Annual Update and Proposed Revision 35.0, Federal Facilities Compliance Order                                                                                                                                                               | N3B-2025-0002          | 36                 |
| 6/3/2025    | Notice of Completion of Off-Site Waste Shipments for the Second Quarter of Fiscal Year 2025 for Los Alamos National Laboratory as Required by the Federal Facilities Compliance Order Site Treatment Plan Compliance Plan Section 4.0 and 3.3.4                                  | N3B-2025-0150          | 36                 |
| 8/18/2025   | Notice of Completion of Off-Site Waste Shipment for Final Disposal, Activity 4.0 Compliance Plan, Site Treatment Plan, Federal Facility Compliance Order, Los Alamos National Laboratory (Shipment June 19, 2025, LA250020)                                                      | N3B-2025-0237          | 36                 |
| 8/18/2025   | Notice of Completion of Off-Site Waste Shipments for the Third Quarter of Fiscal Year 2025 for Los Alamos National Laboratory as Required by the Federal Facilities Compliance Order Site Treatment Plan Compliance Plan Activities 3.3.4 and 4.0                                | N3B-2025-0248          | 36                 |
| 9/30/2025   | Notice of Completion of Off-Site Waste Shipments for Final Disposal, Activities 3.1.5, 3.1.8, and 3.3.4, Compliance Plan, Site Treatment Plan, Federal Facility Compliance, Order, Los Alamos National Laboratory (Shipment July 31, 2025, PF1995780, August 21, 2025 PF1996883) | N3B-2025-0291          | 36                 |

## APPENDIX J HISTORY OF CHANGES TO THE CP AND FFCO

As discussed in Part III (CP), Section 1.2, the STP CP has been modified several times since it was originally issued, in accordance with the provisions of Section X, *Revisions*, and Section XI, *Other Amendments to the STP*, of the October 4, 1995, FFCO, as amended and revised. This appendix provides a summary of these CP changes and of modifications to the FFCO since its issuance.

To date, there have been 34 revisions, revision 35.0 is pending NMED approval, and three amendments to the CP. In addition, the FFCO was amended once on May 20, 1997. Table J-1 provides a summary of these changes. More detailed descriptions can be found in the CP Update portion of each year's STP *Annual Update* and the original correspondence requesting each change.

Table J-1 Summary of Changes to the CP and the FFCO

| Action        | Document Modified | Effective Date | Effect on FFCO/STP                                                                                                                                                                                                                                                      |
|---------------|-------------------|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Rev. 1.0      | STP/CP            | 6/12/1996      | Added off-site treatment as a parallel preferred option for most MLLW treatability groups.                                                                                                                                                                              |
| Rev. 2.0      | STP/CP            | 12/9/1996      | Reduced volume of LA-W928 by approving reclassification of sludge as LLW.                                                                                                                                                                                               |
| Amendment 1.0 | STP/CP            | 10/30/1996     | Divided original volume of LA-W929 into three subgroups, and added new Activities and Compliance Dates.                                                                                                                                                                 |
| Rev. 3.0      | STP/CP            | 1/27/1997      | Divided original volume of LA-W929 into three subgroups, and added new Activities and Compliance Dates.                                                                                                                                                                 |
| Amendment 1.0 | FFCO              | 5/20/1997      | Modified FFCO Sections IV, V, IX, and X to streamline waste transfers and deletions.                                                                                                                                                                                    |
| Amendment 2.0 | STP/CP            | 9/4/1997       | Extended CP Activity 3.1.2B Compliance Date to 12/29/97.                                                                                                                                                                                                                |
| Rev. 4.0      | STP/CP            | 12/29/1997     | Transferred original volume of LA-W929 from three subgroups to other treatability groups, added treatability groups, and deleted treated items.                                                                                                                         |
| Rev. 5.0      | STP/CP            | 12/29/1997     | Added volumes reported in FY 1995 and FY 1996 <i>Annual Updates</i> (and certain other items) to several treatability groups, added Activities and Compliance Dates, added CP Appendices, and deleted treated items.                                                    |
| Rev. 6.0      | STP/CP            | 7/31/1998      | Added volumes reported in FY 1997 <i>Annual Update</i> to several treatability groups, added certain Activities and Compliance Dates, adjusted several original inventory volumes, transferred one LA-W929 item to a new treatability group, and deleted treated items. |
| Rev. 7.0      | STP/CP            | 11/30/1998     | Removed on-site treatment skids, added STP inventory items, added on-site recycling/re-use and radiological decontamination, added notification for off-site treatability studies.                                                                                      |
| Rev. 8.0      | STP/CP            | 12/3/1998      | Extended compliance dates for treatment of MTRU waste.                                                                                                                                                                                                                  |
| Rev. 9.0      | STP/CP            | 6/7/2000       | Added and deleted volumes reported in FY 1998 <i>Annual Update</i> to certain treatability groups.                                                                                                                                                                      |
| Amendment 3.0 | STP/CP            | 8/30/1999      | Transferred three items to MTRU, transferred one item to subgroup within same treatability group.                                                                                                                                                                       |
| Rev. 10.0     | STP/CP            | 12/18/2000     | Added and deleted volumes reported in FY 1999 <i>Annual Update</i> to certain treatability groups.                                                                                                                                                                      |
| Rev. 11.0     | STP/CP            | 4/18/2001      | Added and deleted volumes reported in FY 2000 <i>Annual Update</i> .                                                                                                                                                                                                    |

Table J-1 (continued)

| Action    | Document Modified | Effective Date | Effect on FFCO/STP                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------|-------------------|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Rev. 12.0 | STP/CP            | 3/13/2002      | Added and deleted volumes reported in FY 2001 <i>Annual Update</i> . Extended CP Activity 3.1.5A Compliance Date to 8/25/2003. Extended CP Activity 3.1.11A to 2/01/04. Removed the requirement to develop treatment technologies and the associated compliance schedule in CP Activity 4.0 and added language specifying that MTRU waste would be shipped off-site to WIPP for disposal.                                                                                |
| Rev 13.0  | STP/CP            | 7/14/2003      | Added and deleted volumes reported in FY 2002 <i>Annual Update</i> .                                                                                                                                                                                                                                                                                                                                                                                                     |
| Rev 14.0  | STP/CP            | 1/5/2005       | Added and deleted volumes reported in FY 2003 <i>Annual Update</i> .                                                                                                                                                                                                                                                                                                                                                                                                     |
| Rev 15.0  | STP/CP            | 8/16/2005      | Added and deleted volumes reported in FY 2004 <i>Annual Update</i> .                                                                                                                                                                                                                                                                                                                                                                                                     |
| Rev 16.0  | STP/CP            | 12/12/2006     | Added and deleted volumes reported in FY 2005 <i>Annual Update</i> . Extended CP Activity 3.1.8(A) Compliance Date to 8/09/2007. Extended CP Activity 3.1.9(A) Compliance Date to 8/09/2007. Extended CP Activity 3.1.10(A) Compliance Date to 8/31/2007. Extended CP Activity 3.1.11(A) Compliance Date to 12/31/2007. Extended CP Activity 3.2(J) Compliance Date to 12/31/2007. Reclassified 0.2082 m <sup>3</sup> of LA-W934 High Activity MLLW waste to MTRU waste. |
| Rev 17.0  | STP/CP            | 6/26/2008      | Added and deleted volumes reported in FY 2006 <i>Annual Update</i> . Extended CP Activity 3.1.5(A) Compliance Date to 12/31/2008. Extended CPV Activity 3.1.8(A) Compliance Date to 8/28/2008. Extended CP Activity 3.1.9(A) Compliance Date to 8/28/2008. Extended CP Activity 3.2(J) Compliance Date to 12/31/08.                                                                                                                                                      |
| Rev 18.0  | STP/CP            | 1/9/2009       | Added and deleted volumes reported in FY 2007 <i>Annual Update</i> . Extended CP Activity 3.1.8(A) Compliance Date to 8/28/2009. Extended CP Activity 3.1.9(A) Compliance Date to 8/28/2009. Proposed a new Section 3.3.4 for Treatability Group, LA-W935 10–100 nCi/g Waste with new CP Activity 3.3.4 (A) Compliance Date 12/01/2013 and CP Activity 3.3.4 (B) Compliance Date 12/31/2013. Extended CP Activity 3.2(J) Compliance Date to 12/31/2010.                  |
| Rev 19.0  | STP/CP            | 2/5/2010       | Added and deleted volumes reported in FY 2008 Annual Update. Extended compliance date for CP Activities 3.1.8(A) and 3.1.9(A) to 8/28/12. Proposed a new milestone of 12/31/2010 for 3.1.4(A) and a new milestone 3.3.4(C) for 10–100 nCi/g Waste.                                                                                                                                                                                                                       |
| Rev 20.0  | STP/CP            | 11/8/2010      | Added and deleted volumes reported in FY 2009 Annual Update. Proposed an extended compliance date for CP Activity 3.2(J).                                                                                                                                                                                                                                                                                                                                                |
| Rev 21.0  | STP/CP            | 3/21/2012      | Added and deleted volumes reported in FY 2010 Annual Update. Proposed new compliance date for CP Activity 3.1.8(A).                                                                                                                                                                                                                                                                                                                                                      |
| Rev 22.0  | STP/CP            | 12/10/2012     | Added and deleted volumes reported in FY 2011 Annual Update.                                                                                                                                                                                                                                                                                                                                                                                                             |
| Rev 23.0  | STP/CP            | 8/26/2015      | Added and deleted volumes reported in FY 2012 Annual Update. Added Table 4.0-1 Treatability Groups for the Framework Agreement MTRU Waste.                                                                                                                                                                                                                                                                                                                               |
| Rev 24.0  | STP/CP            | 8/26/2015      | Added and deleted volumes reported in FY 2013 Annual Update. Proposed compliance date for CP Activity 3.1.5(A). Proposed compliance date for CP Activity 3.1.8(A). Extended CP Activity 3.2(J) Compliance Date to 6/30/2018. Proposed compliance date for CP Activity 3.3.4 (A and B).                                                                                                                                                                                   |

Table J-1 (continued)

| Action   | Document Modified | Effective Date | Effect on FFCO/STP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|----------|-------------------|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Rev 25.0 | STP/CP            | TBD            | Added and deleted volumes reported in FY 2014 Annual Update. On Hold volumes reported shipped in FY 2014 Annual Update. Proposed compliance date for CP Activity 3.1.8(A). Proposed compliance date for CP Activity 3.3.4 (A and B).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Rev 26.0 | STP/CP            | 1/30/2017      | Added and deleted volumes reported in FY 2015 Annual Update. On Hold volumes reported shipped in FY 2014 Annual Update. Proposed compliance date for CP Activity 4.0-2 (C).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Rev 27.0 | STP/CP            | 3/21/2017      | Added and deleted volumes reported in FY 2016 Annual Update. On Hold volumes reported shipped in FY 2014 Annual Update. Proposed compliance date for CP Activities 4.0-2(a), and 4.0-2(c).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Rev 28.0 | STP/CP            | 5/9/2019       | Added and deleted volumes reported in FY 2017 Annual Update. On Hold volumes reported shipped in FY 2014 Annual Update. Proposed compliance date for CP Activities 3.1.8-2(A), and 3.3.4-2 (A and B).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Rev 29.0 | STP/CP            | 4/9/2020       | Added and deleted volumes reported in FY 2018 Annual Update using volume information spreadsheets supplied from TA-55, CMR and TWF and other databases for volume information at TA-54. Updated Tables and Appendices throughout document. Updated Part III, Section 3.2, FTWCs compliance date extension request and NMED approval. Updated Part III, Section 4.0, "Transfer of Covered MTRU Inventory" for CVDs. Appendix A was split into two tables: A-1 for N3B and A-2 for LANS. Appendix E was split into two tables: E-1 for N3B and E-2 for LANS. Appendix G was split into two tables: G-1 for N3B and G-2 for LANS.                                                                                                                                                                        |
| Rev 30.0 | STP/CP            | 9/22/2020      | Updated volumes reported in FY 2019 Annual Update using data from WCATS. Updated tables and appendices throughout document. Table 2.2-1: Revised lines involved with information for "FY 2014 on Hold" to reflect current up-to-date information and clarity. Table 4.0-1: Updated the title of each column for clarity. Updated information throughout the report, either to remove redundancies and /or add information to keep the report up-to-date and consistent. Split Appendix D into two tables: D-1 for N3B and D-2 for Triad. Reconstructed all tables in Appendix F for clarity and purpose. Table F-1: Removed column "Total FY 2014 Inventory (abovegrade on Hold [m <sup>3</sup> ])" as this information is captured in F-2 and F-4 tables. Table F-4: Reworded the title for clarity. |

Table J-1 (continued)

| Action    | Document Modified | Effective Date | Effect on FFCO/STP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------|-------------------|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Rev. 31.0 | STP/CP            | 7/12/2021      | <p>Updated volumes reported in FY 2019 Annual Update using data from WCATS. Updated information throughout the report, either to remove redundancies and/or add information to keep the report up-to-date and consistent. Updated tables and appendices throughout document. Changed title of Table 2.1-1 from “FY 2019 MLLW Inventory Summary” to “STP-Covered MLLW Inventory Summary.” Changed title of Table 2.2-1 from “Covered MTRU Inventory Summary” to “STP-Covered MTRU Inventory Summary.” Removed Table 4.0-1, “Treatability Groups for The Framework Agreement - 3706 MTRU Waste Campaign (remaining containers at TA-54 and WCS on hold),” and replaced with Appendix E-3 and Appendix G-3. Relabeled Table 4.0-2 to Table 4.0-1, “Activities and Compliance Dates for MTRU Inventory for TA-54 and TA-55.” Changed title of Table A-2 from “FY 2019 MLLW Inventory at CMR, TA-55, and TWF, Detailed Update by Treatability Group” to “FY 2020 Triad MLLW Inventory Detailed Update by Treatability Group.” Revised Table C-1 title, “Administrative Adjustments,” to “FY 2020 MLLW Administrative Adjustments to TA-54 Inventory.” Updated Table C-1 from a combined administrative adjustments table to a N3B-only administrative adjustments table. Updated title of Table C-2 to “FY 2020 Triad MLLW Inventory Administrative Adjustments.” Updated Table C-2 from a detailed combined administrative adjustments table to a Triad-only administrative adjustments table. Revised title of Table E-1 from “TA-54 MTRU Covered Inventory (by Treatability Group)” to “TA-54 MTRU Inventory (by Treatability Group).” Updated Triad Table E-2 to be consistent with N3B Table E-1 in terms of treatability group and formatting. Changed title of E-2 from “Triad MTRU Inventory at TA-55, CMR, and TWF” to “FY 2020 Triad TA-55, CMR, and TWF MTRU Inventory Update by Treatability Group.” Updated Appendix G, Table G-2, to be consistent with N3B Table G-1 in terms of treatability group and formatting. Changed title of Table G-2 from “FY 2019 MTRU Administrative Adjustments for TA-55, CMR Inventory” to “FY 2020 Triad TA-55, CMR, and TWF MTRU Inventory Administrative Adjustments.” Alphabetized in the comments column in Appendices A and E.</p> |

Table J-1 (continued)

| Action    | Document Modified | Effective Date | Effect on FFCO/STP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
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| Rev. 32.0 | STP/CP            | 8/4/2022       | Updated volumes reported in FY 2020 Annual Update using data from WCATS. Updated information throughout the report, either to remove redundancies and/or add information to keep the report up-to-date and consistent. Updated tables and appendices throughout document. Consolidated due to duplication "Table 3.2-1 Treatability Groups for Waste Requiring Characterization or Assessment" and "Table 3.2-2 Additional Wastes Requiring Characterization or Assessment" into single table and removed "Table 3.2-2 Additional Wastes Requiring Characterization or Assessment." Relabeled "Table 3.2-3 Activities and Compliance Dates for Wastes Requiring Characterization or Assessment" to "Table 3.2-2 Activities and Compliance Dates for Wastes Requiring Characterization or Assessment" Consolidated due to duplication "Table 3.3.1-1 Treatability Groups for Lead Decontamination" and "Table 3.3.1-2 Additional Wastes for Lead Decontamination" into single table and removed "Table 3.3.1-2 Additional Wastes for Lead Decontamination." Consolidated due to duplication "Table 3.3.2-1 Treatability Groups for Sorting, Surveying, and Decontamination" and "Table 3.3.2-2 Additional Wastes for Sorting, Surveying, and Decontamination" into single table and removed "Table 3.3.2-2 Additional Wastes for Sorting, Surveying, and Decontamination." |
| Rev. 33.0 | STP/CP            | 8/9/2023       | Updated volumes reported in FY 2021 Annual Update using data from WCATS. Updated information throughout the report, either to remove redundancies and/or add information to keep the report up-to-date and consistent. Updated tables and appendices throughout document.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Rev. 34.0 | STP/CP            | 6/17/2024      | Updated volumes reported in FY 2022 Annual Update using data from WCATS. Updated information throughout the report, either to remove redundancies and/or add information to keep the report up-to-date and consistent. Updated tables and appendices throughout document.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Rev. 35.0 | STP/CP            | 12/11/2025     | Updated volumes reported in FY 2023 Annual Update using data from WCATS. Updated information throughout the report, either to remove redundancies and/or add information to keep the report up-to-date and consistent. Updated tables and appendices throughout document.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Rev 36.0  | STP/CP            | TBD            | <ul style="list-style-type: none"> <li>– Updated volumes reported in FY 2024 Annual Update using data from WCATS.</li> <li>– Updated information throughout the report, either to remove redundancies and/or add information to keep the report up-to-date and consistent.</li> <li>– Updated tables and appendices throughout document.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

## **REFERENCES**

1. *Federal Facility Compliance Order (Los Alamos National Laboratory)*, New Mexico Environment Department (October 4, 1995).
2. Congress, 1996. Text of Public Law 104-201, Congressional Record dated September 23, 1996, Amendment to Public Law 102-579, 1992 *Waste Isolation Pilot Plant Land Withdrawal Act* (106 Stat. 4777).
3. 40 CFR Part 194, Criteria for the Certification of the Waste Isolation Pilot Plant's Compliance with the 40 CFR Part 191 Disposal Regulations: Certification Decision; Proposed Rule (Federal Register V.62, No. 210, Oct. 30, 1997, pp. 58792–58838).